CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 21, 1910.

CONTENTS.

CONSTRUCTION NEWS:
Railways 29
Electric Railways 29
Light and Power Plants..... 29
Bridges 30
Buildings 30
Water Supply and Irrigation..... 32
Sewerage 32
Streets and Roads..... 33
Manufacturing Plants 34
Miscellaneous Contracts 35
United States Possessions and Cuba..... 36
Plans and Specifications on File..... 35
List of Contracts Pending..... 35
PROPOSALS 36

(List of Contracts Pending, and the list of Plans and Specifications on file at the office of Engineering News, will be found on the last page of this Supplement.)

IMPORTANT WORK NOTED IN THIS ISSUE.

Railways.
Gulf, Colorado & Eastern.
Northwestern Pacific.
Neuces River Valley R. R.

Electric Railways.
Horse Cave, Ky.
Springfield, Ill.
Montreal, Que.

Light and Power Plants.
Gas station, Joliet, Ill.
Elec. light plant, Wilson, Kan.
Gas plant, Valleo, Cal.

Bridges.
Arch bridges, Laurinburg, N. C.
Bridge, Russell, Ky.
Superstructure, Winnipeg, Man.

Buildings.
Municipal Terminal, New York, N. Y.
Woolworth building, New York, N. Y.
Warehouses, Cleveland, Ohio.

Water Supply—Irrigation.
Filtration plant, Lynn, Mass.
Water pipe, Amherst, Ohio.
Water-works, etc., Alliance, Neb.
Irrigation system, Chapin, Tex.

Sewers.
Sewer mains, Richmond Hill, N. Y.
Sewer system, Hazelton, Pa.
Laterals, Galion, Ohio.
Sewer system, Pasadena, Cal.

Streets and Roads.
State roads, Hartford, Conn.
Stone and gravel roads, Indiana.
Sidewalks, Pensacola, Fla.

Manufacturing Plants.
Machinery works, Philadelphia, Pa.
Valve plant, Birmingham, Ala.
Cotton mills, Oklahoma City, Okla.

Miscellaneous Contracts.
Dry dock, Prince Rupert, B. C.
Pier, Philadelphia, Pa.
Barge canal, Albany, N. Y.

RAILWAYS.

(*Denotes that this work is advertised in Engineering News.)

ALABAMA.—We are officially advised that the Cullman Coal & Coke Co., which owns 13,000 acres of coal lands and 9,000 acres of timber lands in Alabama, will build a railroad from Cullman, Ala., to Bremen Valley, 24 miles. Surveys are made and right-of-way allowed in fee. As noted on June 9, $750,000 of bonds will be issued to complete railroad and open mines. No contracts have yet been let. G. H. Ten Broock, St. Louis, Mo., is Pres.; Jenkins W. Jones, Cullman, is Ch. Engr.

CANADIAN NORTHERN.—The contract for the first section of the Canadian Northern Ry., through British Columbia, has been let to the NORTHERN CONSTRUCTION CO., Winnipeg, Man. The line will be 60 miles long, running from New Westminster to Chilliwack. It is to be completed this Summer. Work will be begun at once, and it is probable that a thousand men will be employed. Contracts for other sections of the 600 miles of Canadian Northern Ry. projected in British Columbia will be awarded as soon as plans and specifications are prepared. Noted on June 9.

CENTRAL OF GEORGIA.—Company is preparing plans to build an extension several miles long to new coal mines in the Cahaba District, it is stated. C. K. Lawrence is Ch. Engr., at Savannah, Ga.

CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA.—Regarding the item in the issue of May 19, that "this company has applied to the State Railroad Commission for authority to build a line into Superior, Wis., and through that city to its ore docks on St. Louis Bay, including the ore docks and other facilities in that connection the 6.38-mile extension is estimated to cost $780,000," Chas. W. Johnson, Ch. Engr., St. Paul, advises us that this company has no intention of constructing this line and has no extensions authorized for this year.

CROSBYTON-SOUTH PLAINS.—We are officially advised that a contract was awarded on July 9 to W. H. DENISON, of Lubbock, Tex., for grading, trestling, track laying and surfacing the Crosbyton-South Plains R. R., from a connection with the Santa Fe at Lubbock to Crosbyton, Tex., about 40 miles. The work is light for the greater part of the distance. John A. Knox, Crosbyton, Tex., is Ch. Engr. Noted on May 19.

DULUTH, WINNIPEG & PACIFIC.—We are officially informed that the contract has been let for 74.4 miles of new railroad construction between Duluth and Virginia, including 30 miles of heavy construction. All surveys have been made and the right-of-way secured. The contractors are FOLEY, WELCH & STEWART, of St. Paul, Minn. The Company is preparing for an immediate start. D. B. Hanna, of Toronto, Ont., is Pres.; H. T. Hazen, of Duluth, Minn., is Ch. Engr. Noted last week under Canadian Northern.

ELGIN, JOLIET & EASTERN.—Announcement is made that this company will spend more than $1,000,000 in Joliet, Ill., increasing the capacity of its yards and in the construction of steel and wood car repair shops and many other buildings necessary in railroad yards. Arthur Montzheimer is Ch. Engr., Joliet. Noted on June 9.

GAINESVILLE, OKLAHOMA & WESTERN.—We are officially informed that company proposes to let contracts within 30 days for building from Gainesville, Tex., southwest via Era, Slidell, Greenwood and Cowen to Bridgeport, about 56 miles. F. B. Truax, Gainesville, is Ch. Engr. James Whalen is Pres. Noted on June 9.

GULF, COLORADO & SANTA FE.—The cost of revising the grade and standardizing the division between Temple and Coleman, Tex., will be approximately $1,394,805. The C. H. SHARP CONTRACTING CO., Sharp Bldg., Kansas City, Mo., has the contract. The maximum grade from Temple to Brownwood will be reduced to 1¼%, and from Brownwood to Coleman .6%. F. Merritt, Galveston, Tex., is Ch. Engr.

HARRIMAN, KNOXVILLE & EASTERN.—Incorporated by C. E. Hendrick, W. A. Rockwell, H. M. Winslow, L. E. Goodman and H. L. Cory to build a line from Harriman to Knoxville, Tenn., 35 miles, and thence to the Atlantic seacoast. Capital, $10,000.

HUDSON, SOMERVILLE & WESTERN.—Surveys has been completed for the road to to build between Somerville and Taylor, Tex., 60 miles, according to the "Manufacturers' Record." The entire line will be 125 miles long. H. H. Fielder is Pres.; M. R. Hoxie, Vice-Pres., and L. J. Gould, Engr.-of-Constr., 427 Boulevard, Houston, Tex.

ILLINOIS CENTRAL.—Engineers are surveying the route for an extension from Batesville to Charleston, Miss., a distance of about 30 miles. Connection will be made at the latter point with the Yazoo & Mississippi Valley R. R. This extension will give the Illinois Central better facilities for handling traffic between Memphis and Jackson as heavy freight trains can be diverted at Batesville and carried into Jackson over the Yazoo & Mississippi Valley Road. A. S. Baldwin, Chicago, is Ch. Engr.

LEXINGTON & EASTERN.—An extension of three miles is to be made from Jackson, Ky., along the main fork of the Kentucky River to the mouth of Quicksand Creek. The contract has been let to CHARLES J. McKINNEY, of Knoxville, Tenn., and the work will be completed in September. John Marston, Jr., Lexington, Ky., is Ch. Engr.

McCRORY & BEEDEVILLE SOUTHERN.—We are officially advised that the company will construct a 16-mile road from Jelks Junction to McCrory and thence to Beedeville, all points being in Arkansas. The line will be new and the work will be done by the company's forces. The surveys have been made and nine miles of the right-of-way cleared. Clayton Hailey is Pres., and G. G. McCrory, Ch. Engr.; R. B. Keating, Secy.-Treas., all of McCrory, Ark. Noted on June 2 and April 21.

MISSOURI. — The CLARKE-MARSHALL CONSTRUCTION CO. has been awarded the contract for the proposed railroad from Joplin, Mo., to Miami, Okla., in which Franklin M. Smith and J. F. Gallagher, of Joplin, and others are interested. Financial arrangements are said to be complete.

*NEW MEXICO.—See item under Miscellaneous: Railway Grading and Bridges.

NORTHWESTERN PACIFIC. — According to Frank McGowan, Atty., Monadnock Bldg., San Francisco, this company has determined to push the construction work on both ends of the gap in Humboldt County, Cal., at a greater speed than heretofore and to that end contracts calling for the construction of an additional 25 miles of road are about to be let. It is stated that 15 miles of the road will be constructed on the Eureka end and the remaining ten miles on the southern end of the gap. The contracts about to be let will call for the completion of the additional 25 miles of road this summer as the railroad is desirous of drawing the ends of the gap together as close as possible before the winter rains set in. W. C. Edes is Ch. Engr., San Francisco, Cal.

NUECES RIVER VALLEY R. R.—The general contract for constructing this road has been let to the MARYLAND CONSTRUCTION CO., recently organized. Bids for subcontracts will be let about Aug. 1. The line will run from Beeville to Eagle Pass, Tex., 175 miles, via Clareville, Lapara, Oakville, Simmons, Tilden, Cotulla and Carizzo Springs. Three steel bridges over the Nueces River and several wooden bridges over minor streams are required. William A. Frisby is Pres.; Lee Frisby, Vice-Pres. and Gen. Mgr., at Veeville, Tex.; R. M. Buck, Secy. and Treas., Fort Smith, Ark. George A. Hull is Ch. Engr. The route is comparatively level, with low grades. Surveys have been made and the right-of-way has been secured. Noted on May 12.

PACIFIC & IDAHO NORTHERN.—We are officially advised that contracts will be let at once for building an extension from Evergreen, Idaho, northeast to New Meadows, 15 miles. The surveys have been made and the greater part of the right-of-way obtained. The capital has been secured. Construction will be mountain work. Gravel ballast, 2,700 ties to the mile, 65-lb. rails and 22-in. continuous joints will be used. E. M. Heigho is Pres. and Gen. Mgr., Weiser, Idaho; Lee Highley, Weiser, Idaho, is Ch. Engr. Noted on June 9 and June 23.

SAVANNAH, AUGUSTA & NORTHERN.—W. J. Oliver, of Knoxville, Tenn., will begin at once the extension of the line into Louisville, Ga., and thence to Athens, in accordance with original plans. At Athens it will connect with the Seaboard Air Line and that connection will furnish a shorter route between Atlanta and Savannah, by more than 20, and probably as much as 30 miles. The road is projected to run from Louisville, where the present grading stops, to Thompson, McDuffie County, thence to Washington, Wilkes County, thence to Athens.

WEST TULSA BELT LINE.—Company has acquired the last piece of right-of-way for a line to encircle West Tulsa, Okla., and material has been ordered and work will begin at once on the first section of the road connecting the Midland Valley and Frisco roads on the west side of the Arkansas River. The road has a contract to use the Midland's bridge across the Arkansas River, connecting Tulsa, and the entire belt line when completed will be some ten miles in length, connecting the Midland Valley, Missouri, Kansas & Texas, Atchison, Topeka & Santa Fe and Frisco railroads on the outskirts of the city, furnishing trackage for new industries and adequate facilities for transferring freight from one road to another. The officers are J. S. Cullinan, Pres.; J. E. Crosbie, Vice-Pres.; H. L. Stewart, Secy. and Treas., the other directors being F. B. Dillard and F. P. Dodge. Mr. Cullinan is president of the Texas Oil Co., and Mr. Crosbie is president of the Central National Bank, Tulsa.

ELECTRIC RAILWAYS.

SPRINGFIELD, MASS.—The Hampden Railway Co. has been chartered in Massachusetts to construct a railway to be operated by steam or electric power between Springfield and Bondville, with a spur to Holyoke. Capital stock, $1,000,000. The following are the directors: Ralph D. Gillett, H. W. Ely, Archie D. Robinson, Westfield, Mass.; Arthur W. Eaton, Pittsfield, Mass.; Joseph A. Skinner, Holyoke, Mass.; H. H. Bowman and E. T. Ley, Springfield.

ERIE, PA.—Request for a franchise for a trolley line, to enter the city on East Twelfth St. and encompass the townships of Millcreek and Harborcreek, was made in a communication to the Common Council on June 27 by Angle & Strong, of Schenectady, N. Y. They did not name their clients. In their letter they stated that they would like to put a double track on East Twelfth St. as far west as State St., and that they would have a belt line on the Nagle Road, Buffalo Road and Lake Road, encircling the district of the shops and residential section connected with the new electrical plant.

ATLANTA, GA.—Within two months the Atlanta & Carolina Ry. Co., of Atlanta, Ga., will resume construction of its proposed railway to connect Atlanta, Augusta and Athens with a branch line to College Park. J. W. English, Atlanta, is Pres.

NEW IBERIA, LA.—The Southwestern Traction & Power Co., of New Orleans, has been formed to build an electric railway connecting New Iberia and other points. F. W. Crosby, of New Orleans, is promoting the enterprise.

GLASGOW, KY.—We are officially advised that the Louisville, Lincoln Farm & Mammoth Cave Traction Co. plans to let contract about Sept. 1 for building its proposed line from Mammoth Cave to Glasgow to Hodgeville, via Lincoln Farm, 46 miles. It is desired to let construction to a contracting company which will take some of the bonds and stock. J. M. Richardson is Pres.; Charles Van de Burgh is Gen. Mgr., both at Glasgow, Ky.; H. H. Snyder is Ch. Engr., Louisville, Ky. The right-of-way has been secured and the surveys are being made. Officially noted on Dec. 16, '09, and on June 2, '10.

HORSE CAVE, KY.—The Horse Cave & Eastern Ry. Co. will start construction on its projected railway as soon as engineering preliminaries have been completed. The line will be 25 miles in length and will connect Horse Cave, Hiseville, Knob Lick and Edmonton. It will also connect with the main line of the Louisville & Nashville Railroad, and will cross the line of the Louisville, Lincoln Farm & Mammoth Cave Traction Co., noted above. Repair shops will be located at Horse Cave. Either gasoline or gasoline electric cars will be operated for passenger service, and steam for hauling freight. Capital stock, $25,000, is to be increased before construction begins. Bonds will be issued to the amount of $300,000. Louis Edwards, 1463 Arlington Ave., St. Louis, Mo., is Gen. Mgr. Noted officially on June 23.

DETROIT, MICH.—The Grosse Isle Ry. Co. has completed surveys of Grosse Isle and is securing right-of-way around it. There is to be a bridge built, to be controlled by the company when completed. It is expected that construction will be started within a few weeks. Frank Whitehall and P. N. Jacobsen, 361 Cadillac Ave., Detroit, are interested. Noted on June 2.

URBANA, ILL.—The Kankakee & Urbana Traction Co., of Kankakee, Ill., is securing right-of-way in Urbana for its proposed 125-mile railway to connect Kankakee, Urbana, Villa George, Camargo and Charleston. It is expected that construction will be started soon. W. J. Brock, Kankakee, is Pres. Noted officially on Nov. 4, '09, under Kankakee.

PALATINE, ILL.—The Waukegan, Rockford & Elgin Traction Co., of Palatine, will start construction as soon as $100,000 in stock is subscribed for its proposed electric railway from Palatine to Lake Zurich and Wauconda, and ultimately to Volo Lake, Plastake Lake and Fox Lake.

DES MOINES, IOWA.—M. H. Miller, Pres. of the Omaha, Council Bluffs & Sioux City R. R. Co., P. O. Box 974, Des Moines, advises us that construction contracts will be let when stock and right-of-way are secured. The proposed line will connect the cities named and will be 100 miles long. Fully noted on April 21 and May 2.

CANTON, KAN.—The Motor Grand Traction Co. has completed surveys on 65 miles and contracts will soon be awarded for building its proposed 165-mile railway to connect Chester, Neb., and Wichita, Kan., via Concordia, Salina, Canton and Newton, Kan. E. S. Alnutt, Canton, Kan., is Pres.

FREMONT, NEB.—The Nebraska Traction & Power Co., Omaha, has been granted a franchise by the City Council to build an electric railway within the limits of Fremont. This railway is to connect Fremont and Omaha. Under the terms of the franchise it is to be completed by Jan. 1, 1912.

SPRINGFIELD, ILL.—Isaac A. Smith, Consult. Engr., Bank of Commerce Bldg., St. Louis, Mo., advises us that he is working upon a proposition to build an interurban railway connecting Springfield, Pawnee, Morrisonville, Hillsboro, Coffeen, Greenville, Carlyle and Centralia with a branch line from Coffeen connecting Vandalia, Kinmunday, Flora and Mount Carmel, and another connecting Greenville, Alhambra, Edwardsville and East St. Louis. The name of the company will be the Springfield & Central Illinois Traction Co., and the line will be about 225 miles long when completed. The estimated cost is about $3,000,000. Surveys will be commenced soon and right-of-way obtained.

ROGERS, ARK.—The Rogers-Bentonville-Decatur Interurban R. R. Co. has started surveys at Cave Springs for a route for the proposed railway which is to connect Rogers, Cave Springs, Bentonville and Decatur. Construction is expected to begin soon. J. D. Houseman and G. G. Southerland, St. Louis, are promoting this railway.

STOCKTON, CAL.—The Central California Traction Co., San Francisco, has asked the Council for a 50-year franchise to build an electric railway over certain streets and highways of San Joaquin County. Samuel B. McLenegan, Stockton, is Gen. Mgr.

MONTREAL, QUE.—A bill has been introduced in the Legislative Assembly at Quebec, to incorporate the Montreal Underground & Elevated Railway Co. The bill presented by Dr. Finnie mentions capital stock of $20,000,000, and asks for extensive powers for the exploitation of the project of an underground system and elevated railway combined. An important clause in the bill declares that the company shall not exercise any of the powers granted over or upon any part of the streets without first obtaining the consent of hte Municipal Council having jurisdiction over the streets, lanes and highways. In the event of the company not being able to agree with any of the municipalities, the Quebec Utilities Commission shall have jurisdiction to prescribe the conditions regarding the powers conferred upon the company. It is further provided in the bill that the City of Monreal or any municipality concerned may make any agreement with the company as regards the construction of their railway, as well as compensation for the use of streets, the placing of poles and the like. The company asks the right of acquiring or leasing the works of any person or corporation carrying on business desired by the company. The company agrees to spend $2,000,000 on its system within three years from the coming into force of the act, as if the expenditure is not made the act becomes null and void as regards as much work as is not completed. Among those reported interested are: C. W. MacLean, Fulford Pl., Brockville, Ont.; Howard R. Richey, Board of Trade Bldg., Montreal; and T. B. Butler, Atty. for the applicants.

LIGHT AND POWER PLANTS.

(*Denotes that this work is advertised in Engineering News.)

PHILLIPS, ME.—The citizens have voted to award contract to the PHILLIPS LUMBER & ELECTRIC CO. for street lighting for a term of five years, under which the company is to furnish 42 incandescent street lamps of 32 c. p. at $13.99 per lamp per year, for up-to-midnight service. If the town corporation votes for an all-night service any time during the life of the agreement contract the company is to furnish the same for $400 additional per annum. H. H. Berry is Pres. and Mgr.

EAST TILTON, N. H.—The Stone & Webster Engineering Corporation, 147 Milk St., Boston, Mass., Consulting Engrs. for the Laconia Gas Co., has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee,

Wis., for three 250-KW., 6,600-volt, 3-phase, 60-cycle alternators. They will be directly connected with the hydraulic turbines and will serve as a great addition to the company's power plant. Each alternator will be independently excited by a 12-KW. coupled exciter.

OSWEGO, N. Y.—The National Starch Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for a 937-KVA., 480-volt, 3-phase, 60-cycle, 1,800 r. p. m. steam turbo-alternator, excitation for this to be supplied by a small generator coupled to an extension of the turbine shaft. A type "C" Allis-Chalmers condenser will be used to maintain the vacuum.

ELMIRA, N. Y.—The Elmira Water, Light & R. R. Co. is planning extensive improvements to its power plant on Madison Ave. F. M. Reynolds is Ch. Engr.

TOMPKINSVILLE (S. I.), N. Y.—Bids have been opened by the Engineer of the Third Light-house District, Tompkinsville, for erecting a concrete power-house at the general depot, as follows: INDUSTRIAL ENGINE CO., 30 Church St., New York, $17,067 (awarded contract); Charles Meads & Co., New York, $18,330; McHarg-Barton Co., New York, $18,380; Monarch Engine Co., Buffalo, $19,976, and Charles C. Mitchell, Millbrook, N. Y., $25,000.

BUFFALO, N. Y.—The Thornton & Chester Milling Co. will erect a brick and steel addition to its boiler and power-house, 212 Erie St., 50 × 60 ft., 40 ft. high. C. H. Bierbaum, 1142 Prudential Bldg., is Arch. and Engr.

The Board of Supervisors of Erie County, Frank B. Steele, Clerk, Room 36, City and County Hall, is receiving bids for the construction of a power and lighting plant at the Erie County Penitentiary. The power-house will be of stone, brick and steel, 65 × 60, one story, with a brick stack 100 ft. high, 12-ft. base.

NEW CUMBERLAND, PA.—The Susquehanna Woolen Mill Co. is preparing to change its motive power from steam to electricity and proposes to erect a new building and install a new boiler and a 150-KW. generator, which will supply electricity for lamps and motors for the mill.

WASHINGTON, D. C.—The DAVID J. BRAUN MFG. CO., 135 West Washington St., Chicago, Ill., has been awarded contract by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing light fixtures in various public buildings as follows: Chippewa Falls, Wis.; Danville, Ky.; Versailles, Ky.; Winchester, Va.; Jackson, Miss.; London, Ky.; Montgomery, Ala.; Gulfport, Miss.; New Orleans, La.; Albuquerque, N. Mex.; Baker City, Ore.; Cheyenne, Wyo.; Kewanee, Ill.; Moline, Ill.; Ruston, La., and Sault Ste. Marie, Mich.

CHARLESTON, S. C.—Bids were received as follows on July 16 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for furnishing two 100-KW. synchronous generator sets, one 2½-KW. booster set and switchboard controlling equipment for the Charleston navy yard: Allis-Chalmers Co., Milwaukee, Wis., Item 2, $10,650; Westinghouse Electric & Mfg. Co., Baltimore, Md., (2) $10,279; Fort Wayne Electric Works, Fort Wayne, Ind., (2) $9,669; Ridgway Dynamo & Engine Co., Ridgway, Pa., (1) $9,765, (2) $9,705; General Electric Co., Schenectady, N. Y., (1) $9,925, (2) $10,900.

ATLANTA, GA.—The citizens are considering installing a permanent ornamental electric lighting system for the main streets of the city and it is proposed to have the property owners along streets lighted pay the cost of the same. Forrest Adair is interested.

CARTERSVILLE, GA.—Hazlehurst & Anderson, of Atlanta, Ga., have been engaged by the town to make a report on the electric and gas plants, with the view of issuing bonds for municipal improvements. Address the Mayor.

TAMPA, FLA.—The Tampa Electric Co., James Orr, Ch. Engr., Tampa, is planning for the installation of a 750-KW. motor generator in the West Madison St. power house. Contracts for machinery, it is reported, have been let.

FORT MORGAN, ALA.—Contract for installing the electric lighting system at Fort Morgan has been awarded to the BABCOCK & WILCOX CO., of New Orleans, La., at $6,994.

BESSEMER, ALA.—The City Council has granted to the Birmingham Water & Light Co., of Birmingham, Ala., a franchise for an electric light plant and water-works system here.

LEITCHFIELD, KY.—See item under Water Supply—Irrigation.

HUDSON, OHIO.—Plans have been prepared by D. M. Hosford, Engr., Caxton Bldg., Cleveland, Ohio, for municipal improvements in Hudson, including an electric light plant, contracts for which will be placed soon. The specifications call for a 150-HP. gas engine, gas producer and a generator with a rating of 100 KW.

GOSHEN, IND.—The Hawks Electric Co. is making arrangements for the construction of a new steam generating plant. This company operates a 300-KW. hydroelectric plant on the Elkhart River and has a steam auxiliary plant in its flour mill. The equipment of the new plant will include two water-tube boilers and a 500-KW., 2,300-volt 3-phase, alternating-current turbo-generator set. Contracts have been placed for part of the equipment. F. J. Postel & Co., 279 Dearborn St., Chicago, Ill., are Consulting Engrs.

JOLIET, ILL.—Plans are being prepared by the Western United Gas & Electric Co. for a large new gas manufacturing station here. Hugh Mitchell is Mgr., Joliet.

DECORAH, IOWA.—Bids will be received at the office of the Supervising Arch., Treasury Dept., Washington, D. C., until Aug. 10 for the construction complete, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office building at Decorah, in accordance with plans and specifications, copies of which may be obtained from the custodian of site at Decorah or at the office of James Knox Taylor, Superv. Arch.

WATERLOO, IOWA.—Contract for the construction of the new power plant for the Waterloo, Cedar Falls & Northern was let on July 1 to JAMES MAINE & SONS. Estimated cost, including the installation of new machinery, $175,000.

PAULLINA, IOWA.—Contract for the construction of the municipal electric light plant has been awarded to the INTERSTATE SUPPLY CO., of Sioux City, Iowa, at $11,500.

POCAHONTAS, IOWA.—We are officially advised that the city will receive bids in about four or eight weeks on electric plant. Estimated cost, $12,000 to $14,000. George Schneider is City Clk.

WILSON, KAN.—Bids will be received at the office of N. Coover, City Clk., until Aug. 2 for material and labor for the construction of an electric light plant and water-works system. Separate bids will be considered as follows: (a) For furnishing and installing pipe lines, including c.-i. pipe, valves, hydrants and specials. (b) furnishing and erecting water tank, tower, and foundations, 150 ft. to maximum water line, 75,000 gallons capacity; (c) furnishing and installing internal combustion engines as follows with complete foundations: One 100-HP., one 50-HP. and one 25-HP.; (d) furnishing and installing two triplex pumps, single acting, 200 gallons capacity, one for direct connection to motor and the other for direct connection to engine (e) furnishing and installing generators and apparatus as follows: one 75-KW. and one 35-KW., 3-phase, 2,300-volt, 60-cycle generator, and switchboard; one 8-KW. constant current transformer; one 25-HP., 2,300-volt, 3-phase motor; (f) furnishing and erecting transmission lines, including poles, cross-arms, transformers, street lamps, wire, etc. All work to be done in accordance with plans and specifications on file at the office of the City Clerk or at the office of George P. Taylor, Engr., Stockton, Kan.

OMAHA, NEB.—McGOWAN & JACOBBERGER have been awarded contract to build the new power-house for the street railway company. The WISCONSIN BRIDGE CO., of Milwaukee, Wis., will place the structural steel. The new house with equipment represents about $600,000. The new power plant building is 140 ft. wide × 245 ft. long. The engine-house will be 70 ft. high and the boiler-house 400 ft high.

ALLIANCE, NEB.—See item under Water Supply—Irrigation.

GREENFIELD, MO.—An order for a 100-KW., 3-phase, 60-cycle, 2,300-volt, 900-r.p.m. belted alternator has been placed with ALLIS-CHALMERS CO., of Milwaukee, Wis., by the Greenfield Light & Power Co., of this city.

ALTUS, OKLA.—The city has awarded contracts for improvements to the municipal electric light plant, water-works and sewer systems to the H. W. MAXCY CONTRACTING CO., of Houston, Tex. The work on the electric plant will cost $35,000 and the water-works $130,000 and will include bringing the water from a point about seven miles north of the city. The water will be pumped by electricity furnished from the central station.

FORT MORGAN, COLO.—Paul Challiss, of Greeley, Colo., was granted a franchise on July 2 to erect a gas plant to cost $50,000.

EVERETT, WASH.—The Robinson Mfg. Co. has awarded contract to the ALLIS-CHALMERS Co. for the following equipment to be installed in the new plant which it is erecting: One 155-KW., 900-r.p.m., 60-cycle, 3-phase, 480-volt alternator; one 60-HP., one 40-HP. and one 20-HP. squirrel cage motors.

LOS ANGELES, CAL.—The LLEWELLYN IRON WORKS, Main and Redondo Sts., has been awarded contract for installing one set of purifier boxes, and raising and strengthening crane and runways at the gas plant of the Los Angeles Gas & Electric Corporation on Aliso St., at $25,500.

ROSEVILLE, CAL.—On June 28 the citizens voted to issue $90,000 of bonds for the installation of an electric light and power plant and sewer system.

SAN FRANCISCO, CAL.—The Board of Harbor Commissioners has awarded contract for lighting the ferry building and the water front for a term of three years to the MUTUAL ELECTRIC LIGHT CO. at $1.25 per week for each arc lamp of 2,000 c. p., with all-night service, and electricity for incandescent lamps at 2¾ cts. per KW.-hr.

VALLEJO, CAL.—The Pacific Gas & Electric Co. will further improve the gas plant here, and will rebuild the entire pipe system throughout the city by laying 1 and 2-in. pipes. C. E. Holburton is Ch. Engr., San Francisco, Cal.

TORONTO, ONT.—Contracts for the new central lighting and heating plant for the University of Toronto, amounting to about $250,000, have been awarded and work will be commenced at once. L. K. COMSTOCK, 50 Church St., New York, will build the power-house and connecting tunnels, as well as supply some of the machinery; BABCOCK & WILCOX, LTD., will furnish the boilers, and W. J. McGUIRE, LTD., of Toronto, will install the heating mains.

BRIDGES.

EAST PROVIDENCE, R. I.—Bids will be received until 11 a. m., July 27, by the Metropolitan Park Commission, Providence, Henry A. Barker, Secy., for grading, surfacing, building reinforced concrete bridge and other work through Barrington Parkway, East Providence. Charlton D. Putnam is Engr., 32 Custom House St., Providence.

NEW YORK, N. Y.—Bids were opened on July 7 by Kingsley L. Martin, Comr. of Bridges, for the construction of a temporary bridge over Hutchinson River at Boston Road, in the Borough of The Bronx. Contract has been awarded to the ALAMO CONSTRUCTION CO., 215 West 115th St., New York, at $11,691.

OIL CITY, PA.—The County Commissioners on July 14 awarded contract to ROGERS BROS. BRIDGE CO., of Albion, Pa., for the construction of the new Petroleum bridge here at $174,879. The bids on a bridge wholly of concrete were: Rogers Bros. Bridge Co., $174,879; Fort Pitt Bidge Co., Pittsburg, $181,680; King Bridge Co., Cleveland, $186,900; Penn Bridge Co., Beaver Falls, $190,846; American Bridge Co., Pittsburg, $198,000. The following were the bids submitted for a stone and concrete bridge: Rogers Bros. Bridge Co., $180,775; Fort Pitt Bridge Co., $189,054; King Bridge Co., $195,000; Penn Bridge Co., $198,149; American Bridge Co., Pittsburg, $200,000.

WASHINGTON, PA.—Bids will be received by John H. Moffitt, County Controller of Washington County at Washington until noon, July 25, for the construction of a reinforced concrete arch of 50 ft. span and 10-ft. roadway, over Daniels Creek in West Bethlehem Township, known as the Wherry Bridge. Plans and specifications may be seen at the office of Chaney & Armstrong, County Engs., Washington.

BEAVER, PA.—Bids will be received by the Pittsburg & Lake Erie R. R. Co., addressed to E. K. Connelly, Purchasing Agt., Pittsburg, until Aug. 1, for the removal of the masonry piers (Beaver Valley sandstone) in the old bridge over the Ohio River at Beaver. The materials in the three piers in the river will be removed to the satisfaction of the United States Government Engineers to a depth of 9 ft. below low water mark. The proposals will be made in two forms—one in which the salvage will become the property of the contractor and the other covering the delivery of the material on the company's property. The masonry to be removed from the river immediately after the removal of the steel work, which work will be commenced Aug. 1.

PITTSBURG, PA.—Foot bridges are to be constructed by the city on the Cape May Ave. viaduct of the Pittsburg Railways Co. bridge connecting the former Boroughs of Beechview and West Liberty, now a portion of the Nineteenth Ward. Before these boroughs became a part of the city efforts to get a permit from the street railways company to erect these foot bridges were futile. Notices that an agreement had been reached between the city and the railways company were sent out on July 14 to property owners who had been urging the improvement. Contract for the foot bridges will be let soon. N. S. Sprague is Supt. Bureau of Construction.

BALTIMORE, MD.—The Northern Central Ry. Co. has awarded contract to BRANN & STUART for renewing the Maryland Ave. bridge. Construction is now progressing, the work being under the direction of A. C. Shand, Ch. Engr., Pennsylvania R. R., Broad St. Station, Philadelphia, Pa.

LAURINBURG, N. C.—We are officially advised that the Road Commission, Stewartsville Township, Scotland County, will receive bids and plans until August 1 at the office of M. L. John, Laurinburg, for construction of seven reinforced concrete arch bridges, two 30-ft. span, 16-ft. roadway, three 30-ft. span, 12-ft. roadway; two 14-ft. span, 12-ft. roadway. This is an extension of date from July 11.

*WILMINGTON, N. C.—Bids will be received by C. R. Humphreys, City Engr., until Aug. 16, for constructing superstructure of a steel highway bridge over the railroad tracks at Sixth St.

WEST PALM BEACH, FLA.—The Palm Beach County Commissioners have awarded contract to the CHAMPION BRIDGE CO., Wilmington, Ohio, at $19,500 for constructing a bridge across Loxahatchee River at Jupiter.

RUSSELL, KY.—The Chesapeake & Ohio Ry. Co., F. I. Cabell, Engr. Maintenance of Way, Richmond, Va., and Cincinnati, Hamilton & Dayton Ry. Co., F. H. Alfred, Ch. Engr., Cincinnati, Ohio, are considering, it is reported the construction of a bridge over the Ohio River between Ironton, Ohio, and Russell.

ZANESVILLE, OHIO.—Bids will be received until July 25 (readvertisement) for $225,000 Fifth St. bridge bonds.

BOWLING GREEN, OHIO.—Bids will be received until Aug. 1 by the County Commissioners for the construction of both the substructure and superstructure of two 34-ft. bridges.

LIMA, OHIO.—The Board of Commissioners of Allen County, Lima, will receive bids until noon, Aug. 2, for performing the labor and furnishing the material necessary for the construction of a bridge over Hog Creek in Bath Township, known as the Fetter Quarry bridge. C. R. Phillips is Clk.

LISBON, OHIO.—The County Commissioners will award contracts on July 25 for the construction of a box culvert at bridge 725 in Washington Township, and a concrete floor for bridge 469 in Butler Township.

PENINSULA, OHIO.—Bids will be received by the Board of County Commissioners, Akron, until Aug. 1, for the repair of the canal and river bridge at Peninsula. Charles L. Wirth is Clk. Bd.

*BARBERTON, OHIO.—Plans and specifications are on file at the office of Engineering News, New York, for the Cornell St. viaduct over the Erie R. R. tracks. Bids are asked until Aug. 1.

Bids will be received until July 22 by the County Commissioners for the construction of a bridge over Wolfe Creek on the north extension of Fourth St. The plans and specifications for the work are on file at the office of the County Commissioners. Charles L. Wirth is Clk.

EVANSVILLE, IND.—The Commissioners of Vanderburg County have awarded contracts for the construction of two bridges to GRAMMAR & SMITH.

LAPORTE, IND.—The Commissioners of Laporte County have awarded contracts for the construction of three bridges and four culverts to WILLIAM A. STEIGLEY, and for one culvert to JOSEPH JENKINS.

HALLOCK, MINN.—Bids will be received by C. J. Hemmingson, County Auditor, until July 25, for constructing nine [illegible] on County Ditch No. 19, and [illegible] bridges and nine steel culverts on County Ditch No. 18.

LINCOLN, NEB.—Bids are asked until 2 p. m., July 30, by H. E. Wells, for all labor and materials for construction of concrete bridges and [illegible].

ST. LOUIS, MO.—The City Council passed the Compton Ave. grade bill providing for the construction of a viaduct over Compton Ave., between Manchester Aves. by the Terminal Association, the Missouri Pacific, the Wabash R. R., and the Frisco Railroad companies. Maxime Reber is City Engr.

LAKE VILLAGE, ARK.—Bids will be asked by the town until noon, July 25, for [illegible] pile, and heavy cypress pile, and [illegible] bridges. Length of pile bridges, 150 ft. bent bridges, 150 ft.

BEEVILLE, TEX.—The Nueces Valley R. R., W. A. Frisby, Pres., has awarded three steel bridges across the Nueces River and several wooden bridges across smaller streams.

WEATHERFORD, TEX.—The Parker County Commissioners have awarded contract to J. J. JOHNSON, of Weatherford, for constructing four bridges, three [illegible] structures, 50-ft. span and 50-ft. approach, one 50-ft. span and 60-ft. approach.

FORT SILL, OKLA.—The Government has awarded contract to the EL PASO BRIDGE CO., of El Paso, Tex., for constructing a 150-ft. steel bridge across Cache Creek, Capt. L. Stone, Constructing Q. M., U. S. A.

OKEMAH, OKLA.—The Okfuskee County Commissioners will receive bids until Aug. 8 for the erection of 25 steel and wooden bridges. Bids to be filed with [illegible] County Clk.

NEW MEXICO.—See item under Railways.

PORTLAND, ORE.—The Oregon R. R. & Navigation Co. has awarded contract for constructing the bridge over the Columbia River to the UNION BRIDGE & CONSTRUCTION CO., New Nelson Bldg., Kansas City, Mo. Estimated cost, $517,000.

SAN JOSE, CAL.—Bids will be received until 11 a. m., July 25, by the County Commissioners at San Jose for constructing a reinforced concrete bridge on Alameda Road over Guadalupe Creek, three miles south of San Jose. Estimated cost, $6,500. G. M. Millan is County Surv.

LOS ANGELES, CAL.—The Board of Public Works on July 1 approved plans and specifications for a concrete arch bridge, to be built jointly by the city and the Pacific Electric Ry. Co., across Arroyo Seco, at Pasadena Ave. and Ave. 35. Bids will be asked soon. Homer Hamlin is City Engr.

SAN DIEGO, CAL.—The County Supervisors received bids as follows on July 8 for the construction of the San Luis Rey River bridge: Mercereau Construction Co., Pacific Electric Bldg., Los Angeles, Cal., $13,150; Young Construction Co., $19,850; Charles Steffgen, $13,491; Standard Iron Works, $16,870; Knight & Hyde, $18,445; Charles W. Corderley, $16,995; E. B. Schockley, $16,750. The Securities Construction Co. bid $12,800 on general specifications and $17,360 on an all-steel bridge. The Young Construction Co. proposes to build an all concrete bridge. The specifications call for a combination wood and steel or an all steel structure, the span to be 612 ft.

METZ, CAL.—Bids were received as follows on July 6 by the Board of Supervisors for the construction of the bridge over the Salinas River at Metz: Monarch Engineering Co., $32,395; Midland Bridge Co., Gibraltar Bldg., Kansas City, Mo., $32,475; M. B. White, $39,000; Charles N. Corbaley, $38,500; Cotton Bros., $33,389; Western Bridge & Construction Co., $33,444; Hyde Harjes & Co., $34,153; Burrell Bridge & Construction Co., $34,960; Messer-Frazer Co., $38,500; W. J. Smith, $34,784; Clarence W. Swain, $38,937; Mervy-Elwell Co., $33,870; Empire Bridge Co., $33,780; Clinton Bridge & Iron Works, $39,522.

BROCKVILLE, ONT.—Bids will be received until July 25 by E. R. Blackwell, Road Engr., Brockville, for constructing the Morton bridge, bids to be received as a whole or separately for 75-ft. steel warren truss highway bridge, two concrete abutments, pile driving, etc.

WINNIPEG, MAN.—Bids will be received until July 25 by the Dept. of Railways and Canada, Ottawa, Ont., L. K. Jones, Secy., and constructing the substructure of Les Pas bridge. Plans and specifications can be seen at the office of the Chief Engr., Dept. Railways and Canals, Ottawa, and the Chief Engineer, Hudson Bay Ry. Co., Winnipeg.

The Board of Control has awarded contract, it is reported, for the Brown and Brant St. bridge over the Central Pacific R. R. tracks at cost of $259,800. The CLEVELAND BRIDGE ENGINEERING CO., of Darlington, England, secured the contract for the superstructure at $205,160.

BUILDINGS.

(*Denotes that this work is advertised in *Engineering News.*)

*MARLBORO, MASS.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m. Aug. 25, for the construction complete including plumbing, gas piping, heating apparatus, electric conduits and wiring of the U. S. post-office at Marlboro, Mass.

NEW YORK, N. Y.—In a report on the transportation conditions of the port of New York, submitted to the Mayor on July 14, Calvin Tomkins, Comr. of Docks and Ferries, outlines a proposed joint railroad terminal on the North River above 55th St., the approximate cost of which would be $100,000,000. "In connection with the proposed terminal development," the report states, "an extension of the elevated railway south of 25th St., having spurs to any of the

piers, would seem desirable. It is also desirable that warehouses should be situated on the easterly side of the marginal way below 39th St. for the receipt of cargoes by ships. Connection can be made from the elevated railroad to the second floors of these warehouses, so that a convenient interchange of freight can be made between the proposed steamship terminal and the joint railroad terminals."

Five buildings are being torn down for the erection of a structure to be built in the form of an L over at 233, 235 and 237 Broadway, and 6 and 8 Park Pl., adjoining in the rear. This corner was purchased by Frank W. Woolworth, the head of the Woolworth chain of 10-cent stores, early in March from various owners at a price said to be nearly $2,000,000. Since that time Mr. Woolworth had secured the 6-story building at 231 Broadway and 10 Park Pl., but these will be retained as low structures to protect the light and air of the big building. Cass Gilbert, architect, 11 East 24th St., is designing the structure. The details have not yet been worked out, but the general plan calls for a 29-story edifice to be surmounted with a tower of ten stories, and its cost will be about $2,000,000. The completed plans will be ready in December. The Broadway frontage will be 80 ft. and 172.9 ft. on Park Pl. Noted on March 17.

NEW YORK, N. Y.—Bids are asked until 2:30 p. m., July 25, by Michael J. Drummond, Comr. of Public Charities, for providing all labor and materials necessary or required for the masonry, steel and iron work, roofing and metal work, carpentry, electric work, heating and ventilating work, and plumbing work and all other work as set forth in the drawings and specifications for the alteration, repair, construction and entire completion, with the exception of fitting up, sterilizing apparatus and lighting fixtures, of the improvements in operating rooms, elevators and machinery, in the City Hospital Building, situated at the south end of Blackwell's Island, Boro. of Manhattan, the City of New York.

Plans have been filed by Thomas J. Duff, Arch., 407 West 14th St., for a 1-story church, to be built at 239 West 49th St., for St. Malachy's Roman Catholic Church, Rev. Joseph F. Delaney, Rector. The facade of the building will be of brick, with granite trimmings, with a frontage of 52.11 ft. and a depth of 100.5 ft. and will be of fireproof construction, the aisles being of concrete, which is something entirely new in church construction. The cost of the structure is placed at $45,000.

An entire block front bounded by Greenwich, Washington, Morton and Barrow Sts., has been sold by Trinity Church Corporation to James H. Cruikshank, 50 Pine St. The latter will improve the site with one or more 8-story fireproof mercantile buildings, as tenants may require.

A 15-story hotel and restaurant will be built on the old Brewster carriage factory property, at Broadway, 47th and 48th Sts. by the Atlas Development Co. Plans for the structure are well under way. The plot has a frontage of 155 ft. on Broadway, 277 ft. in 47th St. and 75 ft. in 48th St.

NEW YORK, N. Y.—About $100,000 will be expended within the next two months by Bloomingdale Bros. in alterations to their 59th St. store. The improvements include the installation of an ice-making plant.

Plans have been filed for a 6-story elevator apartment house, to be erected on the east side of Pinehurst Ave., 100 ft. north of 180th St., for the A. V. Donellon Construction Co., at a cost of $150,000. The building will be of brick, with terra cotta and limestone trimmings, with accommodations for 31 families, with a frontage of 75 ft. and a depth of 87.9 ft. Moore & Landsiedel are Archs., 2810 Third Ave.

Within a few months active building operations will begin on the structure to be erected for the jewelry firm of Black, Starr & Frost, Fifth Ave. and 39th St., at the southwest corner of Fifth Ave. and 48th St. The building has been designed by Carrere & Hastings, Archs., 225 Fifth Ave. In style it will be Italian renaissance. The exterior will be entirely of white marble. The building contract has been awarded to JOHN DOWNEY, 410 West 34th St. The building will cost about $250,000.

H. Craig Severance, Arch., 500 Fifth Ave., has filed plans for a 10-story office and store building to be built on the north side of 45th St., 294.3 ft. west of Fifth Ave., for the Medville Realty Co., at a cost of $200,000. The facade of the building will be of glass, iron, granite and ornamented copper up to the ninth floor; from that to the roof it will be of marble and terra cotta, with four large Corinthian columns, and the building will be fireproof.

NEW YORK, N. Y.—According to the plans and specifications of the proposed Municipal bathhouse to be built at Coney Island Park, which were filed on July 9 in the Bureau of Buildings, Borough Hall, Brooklyn, the structure will accommodate nearly 7,000 bathers at one time. It is expected that 30,000 people a day can use the bathhouse with comfort. The plans for the bathhouse, which were filed by Frank H. Quinby, Arch., 99 Nassau St., New York, provide for a 3-story building, 60 ft. wide on the Surf Ave. front, and extending south toward the ocean, adjacent to Balmer's bathing establishment for a distance of 400 ft. Locker accommodations will be provided for 5,563 men and dressing rooms for 1,293 women at one time. The men will have half of the first floor and the entire third floor, and the women will have half of the first floor and the entire second floor. The entrance, with key, ticket and checking offices, will be on Surf Ave., and access to the various floors will be through the two stair towers at that end of the building, with additional stair towers at the ocean end to be used by the bathers in going to and from the beach. After dressing all must pass out at the Surf Ave. end of the building. The building will be constructed of reinforced concrete, with concrete and steel columns carried down to bases which will rest upon piles below the water line. The building will be fireproof, and all of the stairs will be provided with safety treads to prevent slipping when the surfaces are wet. The window frames will be made of heavy galvanized iron, glazed with a ribbed glass and arranged to be opened in sections by means of a geared opening device. All of the floors will be sloped to the sides so as to allow a complete flushing out of the building by water, and all dressing room partitions and lockers will be raised slightly from the floor to allow the cleaning of all floor surfaces from one end of the building to the other. Scuppers will be provided along the sides to carry off the water used for flushing. Toilet and shower facilities will be provided at each staircase on every floor. All of the doors will be constructed of metal on a wood core, with exterior enamel finish to match the color scheme of the interior. Two hospital rooms, for the resuscitation of swimmers will be at the ocean end of the building fitted with all the necessary emergency appliances. The interior walls of the building and the ceiling will have a coating of enamel finish cement, and the exterior will be finished with a white cement coating which will be permanent, requiring no future painting. The floors will be coated with a non-absorbent composition. The building will be wired for electric lights, and will have a system of pipes for water supply for flushing and shower bath purposes. We are officially advised that bids will be asked for within two weeks probably and that the appropriation is $175,000.

NEW YORK, N. Y.—Plans have been filed by C. H. Caldwell, Arch., 160 Fifth Ave., for a 12-story fireproof loft to be erected on the north side of 40th St., 120 ft. west of Madison Ave., for Michael Friedman, owner, at a cost of $250,000. The building will have a facade of brick with trimmings of limestone and terra cotta and a frontage of 51 ft. and a depth of 194½ ft.

Mrs. A. A. Anderson, through Percy H. Brundage, 135 Broadway, will erect an 11-story building at the southeast corner of Fifth Ave. and 38th St., from plans by Buchman & Fox, Archs., 11 East 59th St.

The Lewis Estate, which owns the remainder of the block front, comprising a plot 74.1 × 125 ft. at the northeast corner of 37th St. and Fifth Ave., has had plans drawn by Renwick, Aspinwall & Tucker, 320 Fifth Ave., for a 14-story business building, work on which will be started this fall.

Plans have been filed for a 12-story mercantile building to be erected on the south side of 21st St., 297.7 ft. east of Seventh Ave., with a frontage of 69 ft. and a depth of 85 ft., for the Riley-Brice Realty Co., Peter B. Riley, Pres., at a cost o $200,000. The facade will be of brick, with limestone and terra cotta trimmings, and the building will be fireproof in construction. William H. Birkmire, 396 Broadway, is Arch.

A 12-story building, to be used as stores and lofts, is to be built on the east side of Madison Ave., 28.8 ft. north of 31st St., for the Labarem Realty Holding Co., Louis Steckler, Pres. This building will have a frontage of 74.0¾ ft. and a depth of 125 ft., the facade being of marble at the first, second and third floors and brick above those floors. The building will be fireproof. John B. Snook's Sons, 73 Nassau St., are Archs. Cost, $250,000.

CARBONDALE, PA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Aug. 22, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office at Carbondale, Pa.

HOMESTEAD, PA.—Six bids were received by the Homestead School Board on July 8 for the erection of a high school building. The lowest bid, presented by Meals & Johnstone, of Pittsburg, was $105,230. As the plans call for a building to cost not more than $100,000, the Board rejected all bids and asked the architect to revise the plans.

CRESSON, PA.—Bids will be received by Samuel G. Dixon, Comr. of Health of the Commonwealth of Pennsylvania, at his office in Harrisburg, until 4 p. m., Aug. 1, for the erection and completion of buildings for the State Sanitorium for Tuberculosis, located near Cresson, Cambria County.

ERIE, PA.—Bids are asked by the Building Committee until July 22 for a fireproof addition to St. Vincent's Hospital, on 24th St., between Sassafras and Myrtle Sts. Bids will be received on the entire work and separately for the structural steel work, fireproofing, heating, lighting and plumbing. The addition will connect the present hospital with the old building used as nurses' home. The cost is estimated at from $50,000 to $65,000. The Building Committee consists of Robert F. Devine, R. C. McClenathan and John T. Brew.

CHAMBERSBURG, PA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Chambersburg, Pa., to S. E. BADGLEY, Binghamton, N. Y., at $61,667. Time, Aug. 1, 1911.

BALTIMORE, MD.—We are officially advised that the lot at the corner of German and Grant Sts., which was purchased by Martien & Co., real estate brokers, for clients, will be improved with a fireproof additional 8-story office building for the United States Fidedity & Guaranty Co. to cost $125,000. The structure will be 65 ft. front on German St. with a depth of 72 ft. to Grant St., and will be an addition to the present building at Calvert and German Sts. Otto G. Simonson, American Bldg., is Arch. Bids will be received until 3 p. m., July 25. Noted on June 16 and July 7.

In preparation for the erection of the proposed addition to their store on North Eutaw St. by A. A. and A. Stanley Brager, the property at 225 and 227 North Eutaw St., which was formerly a moving picture theater, is being razed to make room for the new structure. The building will have five stories and a basement, which will provide a floor space of about 38,000 sq. ft. It will be fireproof and will be of brick, with stone trimmings. The plans were drawn by Charles M. Anderson, Arch., 324 North Charles St. It is the intention of the builders to have the building ready for occupancy in the early fall.

Plans for the proposed building of the Polytechnic Institute, which will be erected on the grounds on North Ave. recently purchased from the Maryland School for the Blind, have been practically completed by Baldwin & Pennington, Archs., Professional Bldg., Baltimore. The Building Inspector has announced that work on the new structure will begin in the next few months. The building will be of brick and stone and three stories high. It will accommodate 1,200 students. The shops will be placed in this building. It is expected that it will cost about $350,000.

The work of tearing down the houses on the site which School No. 70, Warren Ave. and William St., will occupy will begin soon. The plans for the new building, which will cost more than $120,000, and which will have 24 rooms, are nearly completed. As the school grounds will cover an entire square, there will be a spacious yard. The building was designed by E. H. Glidden, Arch., Glenn Bldg. The contract will be awarded within a month.

WHEELING, W. VA.—Bids are asked by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, until 11 a. m., Aug. 17, for building two 2-story lock-keeper's houses at Dam No. 13, Ohio River.

DALTON, GA.—We are officially advised that Barrett, Denton & Lynn, of Dalton, have awarded JOHN W. ASH, of Anstell, Ga., contract for their proposed reinforced-concrete warehouse.

DEMOPOLIS, ALA.—Bids were received as follows on July 18 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Demopolis, Ala.: Cecil L. Saunders, Hot Springs, Ark., $41,700; Algernon Blair, Montgomery, Ala., $47,876.

COLUMBUS, OHIO.—Bids will be received by the Board of Education of Columbus until Aug. 1 for the construction of the foundation and superstructure of the Dana Ave. school building. P. D. Shriner, Dora S. Bachman and John J. Stottart compose the Building Committee of the Board of Education.

The announcement is made that bids will close Aug. 3 for the building at Town and High Sts. to be erected by the Ohio National Bank. The plans provide for a bank building and were prepared by Richards, McCarty & Bulford, Archs., The Ruggery. The work is estimated to cost $300,000.

CLEVELAND, OHIO.—Plans for the storage warehouse to be erected by the General Cartage & Storage Co. at a cost of approximately $2,000,000, have not been drawn as yet, owing to the uncertainty of the exact site to be selected by the bridge commission for the new bridge. A. H. Greeley, Mgr., has announced that was the reason for the suspension of operations. In two weeks, he said, something definite would be known. If the Commission should decide to move the bridge south of its present location it would be necessary to adopt another course than that decided upon, erecting the warehouse on the site of the present building and on the adjacent land acquired.

Within 30 days the Terminal Warehouse Co., Citizens' Bldg., will begin work on the $1,500,000 freight station it proposes erecting at Ontario St. and Howe Ave., according to the Cleveland "Leader." Land for the station has been acquired. Plans provide for a building fronting on Ontario St., in which there will be space for seven wholesale concerns, and which will have eight stories above and two below ground; a mercantile warehouse, railroad warehouse and a cold storage building. Behind the company, which is incorporated at $2,000,000, are J. H. Fuller, of the Stowe-Fuller Co.; F. C. Caine, of the National Fireproofing Co., and W. D. Guilbert, Pres. of the Capitol Trust Co., at Columbus. Plans for the buildings were drawn by Frank L. Packard, Arch., Hayden Bldg., Columbus. Freight cars will be run into the basements of the four buildings through tunnels. The freight will then be delivered to the various floors by an elevator system, which includes 30 freight elevators. The Baltimore & Ohio and Wheeling & Lake Erie railroads will reach the depot direct and all other railroads will reach it through transfers. The cold storage plant will have 1,500,000 cu. ft. of space. The mercantile storage house and the bonded warehouse will have 1,800,000 cu. ft. of space. All four buildings will cover over 2½ acres. The company has obtained the right by ordinance from City Council, to construct tunnels under Ontario St. and under Canal Road. The Ontario St. tunnel will carry tracks through "Vinegar Hill" to the basement of the wholesale stores from the Wheeling & Lake Erie terminal. Tracks from the B. & O. railroad will enter the buildings from a tunnel under Canal Road.

The building committee of the Y. M. C. A. has approved the preliminary plans for the 8-story central building, to be erected at the corner of Prospect Ave. and East 22d St. This site is 45,000 sq. ft. This makes it possible to plan a building which shall not go high into the air, and upon the main floors of which the activities of the association can be massed. The first floor will be 272 ft. deep on 22d St. and 153 ft. on the Prospect Ave. facade. There will be a complete gymnasium with a swimming pool.

PORTSMOUTH, OHIO.—The Board of Education has deferred the time for receiving bids on the construction of a school house from July 14 to Aug. 11.

PETERSBURG, IND.—J. C. WRIGHT & SONS, of Aurora, Ind., have been awarded a contract to build a high school building in Petersburg. Estimated cost, $40,000.

MISHAWAKA, IND.—We are officially advised that Fred W. Keller, of South Bend, Ind., will erect in Mishawaka a 2-story business block. It will be constructed of pressed brick and will be 106 × 132 ft. There will be six store rooms on the first floor, the second will contain office rooms, flats and a public hall. It is to be electric lighted and steam heated. The masonry will be done by C. K. WOOLMAN, South Bend, Ind. Contract for the other work will be let about Aug. 15. W. D. Teeple, South Bend, is Arch. Cost, $40,000.

JEFFERSONVILLE, IND.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Jeffersonville, Ind., to CHRIST KANZLER & SON, of Evansville, Ind., at $58,824.

GREENCASTLE, IND.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Greencastle, Ind., to AUGUST OHM, of Terre Haute, Ind., at $47,415.

INDIANAPOLIS, IND.—The School Board has awarded a contract for the construction of a school building at 40th St. and Capital Ave., to JOHN A. SHUMAKER & CO., of this city, at $60,000.

The Trustees of the First Church of Christ have awarded a contract for the construction of a church at 2007 North Meridian St. to the BEDFORD STONE CO., at $50,000. The building will be of colonial style of architecture. Rubush & Hunter, American Central Life Bldg., are Archs.

The Trustees of the All Souls Unitarian Church have awarded a contract to JOHN A. SHUMAKER & CO. for the construction of a church at Alabama and 15th Sts., at $22,500.

BRAZIL, IND.—Bids are asked by Thomas Robison, Trustee of Brazil Township, until noon, Aug. 3, for the construction of an 8-room school building.

URBANA, IND.—Bids are asked by the Trustees of Paw Paw and Lagro Townships, until 10 a. m., Aug. 15, for the construction of a joint township school building, also for a heating plant and for the plumbing.

DETROIT, MICH.—We are officially advised that F. T. Barcroft, Ford Bldg., has prepared plans and is taking figures for a 6-story department store, 100 × 200 ft., for Goldberg Bros., 225 Woodward Ave. White enamel and stock brick, Bedford stone, terra cotta, composition roof, structural iron, hardwood finish and floors, mosaic tiling and electric fixtures will be used in construction. Cost, $60,000.

Lewis Kamper, Fine Arts Bldg., has let the following contracts for the proposed 7-story and basement store and office building, 60 × 100 ft., for L. E. Ward, 97 Ferry Ave.: Steam heat and plumbing to ERNST BROS., 414 Woodward Ave.; electric work to J. D. TEMPLETON & CO., 213 Jefferson Ave., East. Cost, $40,000.

Malcolmson & Higginbotham, Moffat Bldg., and Ammerman, McColl & Anderson, Penobscot Bldg., are preparing plans for a 7-room addition of two stories and basement to the Bellevue School and will take figures late in July. Construction will be of pressed and stock brick with hard wood finish and floors, electric fixtures, steam heat and blower system for ventilation.

WYANDOTTE, MICH.—We are officially advised that Harley & Atcheson, Bowles Bldg., have been commissioned to prepare plans for a 3-story and basement warehouse to be built at Wyandotte, Mich., by Eberts Bros., of this city, who are taking figures. Stock brick, Bellford stone, composition roof, galvanized iron cornice and electric fixtures will be used in construction.

LANSING, MICH.—E. A. Bond, 127 West Allegan St., is preparing plans for a church, 70 × 165 ft., for St. Mary's Church, Rev. Lafayette L. Brancheau, 220 North Walnut St., Rector. The building is to cost $60,000.

Moon & Spice, Tussing Bldg., and E. A. Bond, 127 Allegan St., are preparing plans for a $70,000 hospital for the Hospital Committee, H. H. Larned, Chn., 105 South Washington Ave. The building is to be started this fall.

PONTIAC, MICH.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Aug. 18, for the construction complete (including plumbing, gas piping, heating apparatus and electric conduits and wiring), of the U. S. post-office at Pontiac, Mich.

GREENVILLE, ILL.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Greenville, Ill., to BARNES BROS., of Bradford, Ohio, at $47,200.

MINNEAPOLIS, MINN.—All bids received on June 27 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for constructing a post-office in Minneapolis have been rejected. A list of bids was given on June 30. The work will be readvertised.

MINNEAPOLIS, MINN.—According to J. D. Bren, Treas. of the Board of Regents of the University of Minnesota, at Minneapolis, the following amounts are available for a greater university campus Aug. 1, 1910: Anatomy building, $200,000; engineering building, $250,000; girls' dormitory, $160,000; heating plant, $150,000; Elliott hospital, $160,000; mechanical engineering building at Agricultural College, $100,000. Plans have been completed for some of these structures and construction is expected to start at once.

AUSTIN, MINN.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Austin, Minn., to the NORTHERN CONSTRUCTION CO., 421 Milwaukee St., Milwaukee, Wis., at $45,680. Time, Dec. 1, 1911.

ST. PAUL, MINN.—The City and County Board of Control, N. P. Langford, Chn., awarded the contract for the construction of the 2-story pressed brick and cut stone service building at the City and County Hospital to CAMERON & CO., 619 Ryan Bldg., city, on a bid of $40,250. The other bidders were John Fisher, $42,000; Ingemann Bros., $42,700, and Jacob Lauer, $43,450. C. H. Johnston, 715 Manhattan Bldg., St. Paul, is Arch.

FARIBAULT, MINN.—The State Board of Control, Charles Halvorson, Chn., St. Paul, will receive bids until 2 p. m., July 25, for the construction of a 2-story pressed brick and cut stone fireproof boys' dormitory for

the State School for the Feeble-Minded at Faribault. It will have steam heating, electric lighting and slate or tile roof. C. H. Johnston, 715 Manhattan Bldg., St. Paul, is Arch. Cost, $40,000.

JONESBORO, ARK.—The First District Agricultural School Commission, together with Prof. Key, the principal; M. F. Dickinson, who will have charge of the literary department, and the architect were in session recently in connection with the new institution. They adopted plans for an $80,000 building and will advertise at once for bids and let the contract as soon as possible. This will be the most expensive of the four proposed schools. See Buildings, June 30—Magnolia, Ark.

TACOMA, WASH.—The HURLEY-MASON CO., Perkins Bldg., has taken out a building permit for the construction of the Commercial Club-Weyerhaeuser 10-story block at South Eleventh and A Sts. Cost, $400,000.

KLAMATH FALLS, ORE.—A $50,000 fireproof hotel to be erected on the Hanmaker property at corner of Main and Third Sts. George McDonald is drawing the plans.

SACRAMENTO, CAL.—The contract for the erection of the American Music Hall, a $75,000 theater to be built at Twelfth and J Sts. by Mr. and Mrs. M. H. Diepenbrock, for the William Morris Co., was signed today. ROBERT TROST, 3336 Army St., San Francisco, has the contract and will begin work at once. The theater must be completed for the opening performance Nov. 17.

LOS ANGELES, CAL.—We are officially advised that Myron Hunt & Elber Grey, Archs., Union Trust Bldg., are preparing plans for the following buildings to be erected for Occidental College at Eagle Rock Valley: Administration building, two dormitories and a science hall. The buildings are to be fireproof, two and three stories in height and constructed of reinforced concrete. The buildings will cost $400,000 and the equipment $70,000. The structures will measure 65 × 200 ft., 40 × 130 ft., 40 × 130 ft. and 60 × 150 ft. Contracts will be let before Aug. 1.

R. B. Young & Son, Archs., Laukershim Bldg., are taking bids for the erection of a 5-story Class B building, 51 × 151 ft., to be erected on South Broadway between Seventh and Eighth Sts., for Meyer Bros. Estimated cost, $70,000. It will have a steel frame, brick walls, and passenger and freight elevators.

J. L. Zeller, Currier Bldg., is preparing plans for a 5-story and basement Class B apartment house to be erected at Eighth St. and Grand Ave., for Crichton Smith. It will be 91 × 165 ft., and will contain 125 rooms and 56 bath rooms. The exterior will be brick over steel frame, with terra cotta trim. Estimated cost, $110,000.

LOS ANGELES, CAL.—The LLEWELLYN IRON WORKS has been awarded contract, at $170,000, for the structural steel work for the 8-story and basement Class A building to be erected at West 7th and Olive Sts., for the Los Angeles Athletic Club. The contract for the elevators was also awarded to the Llewellyn Co., at $12,750. The C. J. KUBACH CO. was awarded the contract for constructing the foundations, at $17,250.

POMONA, CAL.—The Pilgrim Congregational Church, of this city, has commissioned Robert H. Orr, Arch., National Bank Bldg., Pomona, to prepare plans for a church, at an estimated cost of $85,000. The building will be of Gothic style with stone exterior and hard wood interior. H. J. Nichols, Park and Walnut Sts., is Chn.

R. J. NOBLE, 959 North Garey St., has secured the contract for the erection of the new First Baptist Church at $49,000. It will have a 100 × 135-ft. frame. Norman F. Marsh is Arch., Broadway Central Bldg., Los Angeles, Cal.

ANTIOCH, CAL.—Plans for the proposed building for the First National Bank of Antioch have been received by the Directors and bids for its erection are to be invited soon. The building will be two stories and of concrete. The main room is to be 25 × 52 ft., with a directors' room attached. The second floor will be built into offices. The building will be of old mission style and will cost about $50,000.

REDLANDS, CAL.—TAYLOR BROS., of Redlands, Cal., have been awarded the contract for the erection of the Redlands High School polytechnic buildings on the triangle east of the high school building, at $61,827. Bids were presented by five contractors, all from Redlands, except C. J. Bliss, of Pasadena.

SAN FRANCISCO, CAL.—The directors of the San Francisco Turn Verein have accepted the designs and plans of E. A. Neumarket for the Turn Verein hall, which is to be erected at once on the north side of Sutter St., between Devisadero and Broderick Sts. A competition was held in which several architects submitted plans and the prize was taken by Neumarket with a building in the German renaissance. There will be three stories and a basement story in the structure, which will cover the entire lot, with a frontage of 84.3 ft. and 137½ ft. deep. The construction will be brick with a steel frame in the larger part of the building. In the basement there will be a gymnasimu, dressing rooms for men and women, a plunge bath, seven showers, an apparatus room, a kitchen, two bowling alleys with a club room, and rooms for the heating plant and machinery will have the rest of the basement space. The second floor is laid out principally for an auditorium, or ball room. The third floor will contain a meeting hall connected with a library, and a reading room. The cost of the structure is estimated at $50,000.

SAN DIEGO, CAL.—Quayle Bros., Archs., Granger Bldg., San Diego, have awarded contract to SCHANIEL BROS. for constructing the foundation of the Hall-Grant building at Third and B Sts., at $50,000. The building will be 100 × 100 ft., eleven stories high. The architects are receiving bids for the balance of the work.

TUCSON, ARIZ.—A general invitation is extended to architects by the Scottish Rite Cathedral Committee of Tucson, to submit plans for a cathedral to be erected in Tucson, to cost $50,000. Plans will be received by J. M. Ormsby, of Tucson, until about Sept. 10.

SALT LAKE CITY, UTAH.—The Board of County Commissioners will receive plans until July 26 from architects, in competition, for a 3-story and basement hospital building to be erected in Salt Lake City, of brick with cement floors.

WATER SUPPLY—IRRIGATION.

ANDOVER, N. H.—Contracts for constructing water-works were awarded on July 2 by the city as follows: For pipe, to U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, at $24.70 per ton; hydrants and valves, to FAIRBANKS CO., $1,157, and pipe laying, etc., to ABLETT & BOWES, Cohoes, N. Y. Prof. John R. Eastman is Chn. Water Com. Dudley & Sawyer are Engrs., Manchester.

METHUEN, MASS.—Contract for laying 23,000 ft. of 6-in. water pipe has been awarded by the Water Commissioners to FRED W. STOWERS, of Methuen, and J. J. EVANS, of Lawrence.

LYNN, MASS.—The Hering-Fuller Co., of Lynn, has been engaged to design a water filtration plant for the city. Estimated cost, between $300,000 and $400,000.

KEESEVILLE, N. Y.—Bids will be received by J. B. Mace, Pres. Bd. Water Comrs., until Aug. 25 for laying approximately one mile of 10-in. c.-i. water pipe, and constructing a reservoir for new source of water supply. W. G. Stone, 9 Mann Bldg., Utica, is Engr.

NEW YORK, N. Y.—Bids were received as follows on July 13 by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying water mains in the Borough of The Bronx: Louis D. Gregory, 342 East 125th St., $42,638; Drummond & Haggerty, $49,548; S. Sorracci, $55,792; Joseph Burns, $50,425.

*ATLANTIC CITY, N. J.—We are officially advised that bids were received by the Board of Water Commissioners on July 15 for furnishing and installing steam and water pipes, valves and fittings at Absecon pumping station, in accordance with plans and specifications on file in the office of the Water Department. W. K. MITCHELL & CO., Ellsworth St. and Schuylkill River, Philadelphia, Pa., were awarded contract on July 19 at $7,450. Other bidders were: Dougherty & Bachran, North American Bldg., Philadelphia, $9,718; Philadelphia Steam Heating Co., 1513 Filbert St., Philadelphia, $15,615; John T. Nesbit, 908 Atlantic Ave., Atlantic City, $8,400 (Fairbanks Valve) and $8,900 (Rensselaer Valve).

PHILADELPHIA, PA.—Ballinger & Perrot, Archs., have awarded contract to JAMES HERBERT STITZER, JR., 1201 Chestnut St., Philadelphia, for a pump house, reservoir and storage tanks for the American Viscose Co., to be erected at Marcus Hook. These will be used in connection with the large artificial silk manufacturing plant which is at present being erected. The reservoir will have a capacity of 750,000 gallons.

UNIONTOWN, PA.—Bids will be received by R. C. Baker, Boro. Engr., Uniontown, until July 23, for the construction of a water-works and sewerage system.

*WASHINGTON, D. C.—Bids are asked until 2 p. m., July 27, by the District Commissioners for c.-i. water pipe and c.-i. water pipe specials.

LYNCHBURG, VA.—The Virginia State Epileptic Colony, located near the city of Lynchburg, will receive bids until Aug. 1 for furnishing and laying a 4-in. c.-i. water main from the city mains of Lynchburg to the Colony site, a distance of 5,000 ft., about 700 ft. of which will be under two branches of the James River, about 350 ft. each. Full information can be obtained by addressing C. L. Demott, Engr., Law Bldg., Lynchburg, Va. Bids must be mailed to A. S. Priddy, M. D., Executive Officer.

CLARKSBURG, W. VA.—W. B. OSBORN, local agent for the Erie City Boiler Co., has been awarded contract by the city for boilers for the new water-works system here at $8,648.

JACKSONVILLE, FLA.—The Board of Bond Trustees, William Bostwick, Jr., Chn., on July 3 rejected all bids for the construction of the proposed 3,000,000-gallon reservoir. R. N. Ellis is Supt. Water-Wks. This is the second time bids have been rejected. Noted on June 23.

GAINESVILLE, FLA.—The city will install an auxiliary pumping station consisting of a 1,200-gallon centrifugal pump and 100-HP. motor. Address C. A. Colclough, Chn. Water Com.

MONTGOMERY, ALA.—The HARTLEY BOILER WORKS CO. has been awarded contract for building the river water standpipe for the new pump station in North Montgomery. The standpipe will be located near the pump house. The structure will be of 500,000 gallons capacity, 120 ft. high and 40 ft. in diameter. It will be built of sheet steel. Estimated cost, $10,000.

AMHERST, OHIO.—Bids will be received until July 25 by Jacob Baus, Secy. Amherst Water-Works Co., for constructing about 13 miles of 4 to 10-in. water pipe.

CLEVELAND HEIGHTS, OHIO.—Bids are asked until noon, Aug. 9, by H. H. Canfield, Village Clk., 309 Beckman Bldg., Cleveland, or at Town Hall, Cleveland Heights, for the necessary labor and material for the improvement of Cedar Road from the east line of Coventry Road to the east line of Lee Road by laying a 10-in. water main. F. A. Pease Engineering Co., 931 Williamson Bldg., Cleveland, are Engrs.

NEWARK, OHIO.—Bids have been opened recently for water pipe for extensions of water mains in 44 streets, using 1,200 ft. of 8-in. pipe and 38,000 ft. of 6-in. pipe, with 60 hydrants. The Sand & Gravel Co., of East Liverpool, Ohio, bid $13,045, and S. J. White and F. C. Webb, Newark, $12,289.

EUCLID, OHIO.—Bids are asked until noon, July 22, by Nelson J. Brewer, Village Clk., at the Town Hall or at the Rockefeller Bldg., Cleveland, for the improvement of Lawnview Ave. by constructing a 6-in. water main. F. A. Pease Engineering Co., Williamson Bldg., Cleveland, are Engrs.

GRAND RAPIDS, MICH. — JOSEPH RUSCHE, of Grand Rapids, was awarded contract on July 7 for the construction of the first section of the filtration plant at $51,518. Engineer's estimate, $53,182. This was the only bid received.

CHICAGO, ILL.—Bids will be received until July 25 by the Board County Commissioners at the office of William McLaren, Supt. Pub. Ser., Chicago, for furnishing material and erecting well houses and drilling wells at the Oak Forest Infirmary. Holabird & Roche are Archs., Monadnock Bldg., Chicago.

BEMENT, ILL.—Bids are asked by the Board of Local Improvement for the furnishing and laying of 2,517 ft. of 4-in. water main until 2.30 p. m., July 26. Plans and specifications may be seen at the office of the Village Clerk. W. J. Day, C. E., is Pres. Bd.

INDIANOLA, IOWA.—We are officially advised that bids were received on July 11, by J. H. Clark, City Clk., for the construction and material necessary for the waterworks. The work includes 10,000 ft. of standard 4-in. c.-i. pipe, 15 Eddy hydrants and 17 Eddy gates. Contract has been awarded to the DES MOINES BRIDGE & IRON WORKS, of Des Moines, at $7,000. A. H. Gilliland, Indianola, is Engr.

MINNEAPOLIS, MINN.—Bids will be received until 7.30 p. m., July 29, by Henry N. Knott, City Clk., for furnishing a 20,000,000-gallon centrifugal pumping engine, and a vertical triple expansion pumping engine.

BIWABIK, MINN.—Bids will be received until July 23 by H. J. Millbrook, Village Clk., for constructing water and sewer system in Shaw Ave. and water main in Chicago Ave.

WILSON, KAN.—See item under Light and Power Plants.

ALLIANCE, NEB.—Grant & Letton, F. & M.* Bldg., Lincoln, are preparing plans for extensions to the water-works and electric light plant. Estimated cost, $95,000.

*ORLEANS, NEB.—Bids will be received by J. C. Gay, City Clk., until 7 p. m., Aug. 5, for furnishing all labor and materials and building a system of water-works, according to the plans and specifications on file, and consisting of the following: Brick, pumping station, steel stand pipe, 12 ft. in diameter, by 80 ft. high, concrete foundation, one 25-HP. gasoline engine with foundation, pipe connections and belt; system of approximately three miles of 8, 6 and 4-in. water mains, with hydrants and valves. The water supply will be developed by the city ready for belt attachment from gasoline engine. Charles C. Sturtevant is Engr., Holdrege, Neb.

RUGBY, N. DAK.—Bids will be received until July 25 by Henry Nelson, City Audr., for consiructing 6 and 4-in. water mains in Second, Third, Main, De Smet and Foster Sts., in all about 9,607 lin. ft. of pipe and 18 hydrants.

SCOTLAND, S. DAK.—Bids will be received until July 23 by the City Council for constructing a water tower and connecting pipe. F. Goehring is Mayor.

EUREKA, MONT.—This town is planning to install a municipal water-works system.

FORT MISSOULA, MONT.—Contract for the erection of a 3,000-gallon field tank and trestle at Fort Missoula has been awarded to the DES MOINES BRIDGE & IRON CO., of Des Moines, Iowa, it is reported, at $25,150.

FORT SMITH, ARK.—The Board of Public Affairs has awarded contract to MUNICIPAL ENGINEERING & CONSTRUCTION CO., Chattanooga, Tenn., at $15,000, to lay additional water mains. Contract for pipe and specials was awarded to the U. S. PIPE CO., of St. Louis, Mo.

LESLIE, ARK.—See item under Light and Power Plants.

CHAPIN, TEX.—A large system of irrigation which will serve to reclaim a large tract of land in this part of the lower valley of the Rio Grande will be constructed near Chapin. The Valley Reservoir & Canal Co., with a capital stock of $500,000, will carry out the project. A number of large reservoirs will be used to store the surplus water in order to insure a supply for irrigating purposes when the flow of the Rio Grande River is low. Judge D. B. Chapin is at the head of the new enterprise.

BRIDGEPORT, OKLA.—The city will receive bids until 8 p. m., Aug. 15, for extending the water system and building a new power-house. Estimated cost, $6,000. The following are required: One 25-HP. 2-cylinder gasoline engine and one 7 × 8 triplex pump, single-acting. Plans on file at the office of the City Clerk and at the office of the Oklahoma Engineering Co., Anadarko, Okla.

CLIFTON, COLO.—The town is planning the construction of a water-works system.

SAN FRANCISCO, CAL.—Four bids were received by the Board of Public Works on July 6 for laying 17 miles of pipe for the auxiliary salt-water fire protection system in the district north of Market and east of Powell Sts. The KEYSTONE CONSTRUCTION CO., 18th and Capp Sts., the lowest bidder, at $129,000, was awarded contract. The City Engineer's estimate for the work was $135,000. Marsden Manson is City Engr.

BOISE, IDAHO.—We are officially advised that bids for the enlargement of the main south side canal, Payette-Boise project, were opened on July 8. The W. J. Hoy Co., of St. Paul, Minn., was the lowest bidder. F. W. Hanna is Project Engr., Boise.

ST. BONIFACE, MAN.—Bids will be received until noon, July 26, by the Commissioners Transcontinental Ry., Ottawa, P. E. Ryan, Secy., for air, steam and water oil piping system, yard water mains, pipe tunnels and wiring ducts, in connection with the Transcontinental Ry. at Winnipeg. S. R. Poulen is Dist. Engr., St. Boniface.

SASKATOON, SASK.—Bids will be received until 5 p. m., July 25, by T. H. [illegible], City Clk., for 250-HP. water-tube boilers. T. Clarke is City Engr.

SEWERS.

(*Denotes that this work is noticed in Engineering News.)

BOSTON, MASS.—The city has awarded contract to E. F. KENNEDY, [illegible] Boston, for constructing sewers in Friend St., at $3,760. Bids were opened July 5. Contract for constructing sewers in Dartmouth St. has been awarded by the city to PETER W. HILL, Old South Bldg., Boston, at $19,477. William Jackson is City Engr.

FALL RIVER, MASS.—See Miscellaneous: Dredging.

*WOONSOCKET, R. I.—Bids will be received by the Board of Sewer Commissioners until 2 p. m., Aug. 4, for building about 3,600 ft. of 8-in. sanitary sewer with appurtenances, and about 660 ft. of surface water drain, part 18-in. pipe and part concrete. Frank H. Mills is City Engr.

HARTFORD, CONN.—Bids for the construction of 390 lin. ft. of 10-in. sewer in New Britain Ave., and 1,360 ft. of 10-in. and 12-in. tile sewer in the rear of Fairfield Ave., will be received by the Board of Contract and Supply, Joseph Burke, Secy., until 11 a. m., July 22.

NEW YORK, N. Y.—Bids were received as follows on July 14 by Cyrus C. Miller, Pres. Boro. The Bronx, for completing the contract which was executed with the Lakefield Construction Co. on Oct. 16, 1909, and declared abandoned on May 16, 1910, for constructing an outlet sewer and appurtenances in White Plains Road, between East 152d St. and 153d St.; in East 152d St., between White Plains Road and Ave. B; in Ave. B, between East 152d St. and Lafayette Ave. (East 156th St.; and in Lafayette Ave. (East 156th St.), between Ave. B and Ave. A: F. V. Smith Contracting Co., 147 East 125th St., $621,400; Ryan & Parker, 820-430 Phoenix Construction Co., $712,482; Joseph L. Segretto, $657,195.

NEW YORK, N. Y.—Bids were received as follows on July 14 by Cyrus C. Miller, Pres. Bronx Boro., for sewers in East 174th St. between Boston Road and West Farms Road, etc., and in Drainage St., south of Hoscobel Pl., etc.: P. F. Brennan, 624 Madison Ave., $19,216 and $43,132, respectively; Briggs & McLaughlin, $21,983 and $51,407; Acmita Construction Co., $19,304; Delbalso Construction Co., $22,634; Stanton Construction Co. $19,191 and $50,986; Thos. Mancini, 4034 Lawrence Pl., Williamsburg, $18,417; Voorhees Sullivan Co., $20,772; F. M. Palladino, $21,567 and $49,556; Julius Draganetto, $20,018; Joseph Burns, $20,956 and $55,224.

*BRONXVILLE, N. Y.—Bids will be received by Frank Dinsmore, Clk., Village of Bronxville, until 8 p. m., Aug. 1, for the construction of a sewer in the village, as follows: For furnishing all labor, material and building a complete 6-in. sewer starting at a point in Tangiewylde Ave., near its intersection with Pondfield Road and running along or near the middle of Tangiewylde Ave. a distance of about 300 ft. to its intersection with Garden Ave., together with all necessary manholes and other appurtenances. For details see advertisement in this issue.

BROOKLYN, N. Y.—Bids were opened on July 6 as follows at the office of Alfred E. Steers, Boro. Pres., for furnishing materials and constructing a sewer in Gravesend Ave. and in 60th St., bids on the percentage basis. Engineer's estimate, $73,318: L. E. Kelly, 98 8/10%; Newman & Carey, 87 14/100%; Murphy Bros., 98%; J. H. Holmes, 87½%; Donegan Redmond Co., 87½%; J. L. Segretto, 87¾%; Hagerty & Drummond, 41 Park Row, New York, 134%; A. B. Nichols, 95⅝%.

RICHMOND HILL (L. I.), N. Y.—The Board of Estimate and Apportionment of New York City has authorized the preparation of preliminary plans for the construction of a system of sewer mains for the benefit of the Richmond Hill and Ridgewood Heights sections. The number includes: Lefferts Ave., from Liberty Ave. to Ulster Ave., $90,000; Lefferts Ave., from Ulster Ave. to Rockaway Road, $98,500; Panama St., from Lake Ave. to Rockaway Road, $70,000; Panama St., from Vienna Ave. to Blake St., $70,000, and Panama St., from Cozine Ave. to Vienna St., $99,500; also, temporary open drain in Panama St. between Cozine St. and Jamaica Bay, $65,000, all in Richmond Hill. For the Ridgewood Heights district plans were authorized for mains in Seneca Ave., from De Kalb Ave. to Putnam Ave., and from Cornelia St to Myrtle Ave.; in Himrod St., from Seneca Ave. to Brooklyn line, and in Putnam Ave., from Seneca Ave. to Myrtle Ave.; total cost, $74,000. These mains will connect with the large Myrtle Ave. main now in operation. Estimated total cost, $567,000.

BUFFALO, N. Y.—Bids will be received until July 26 by the Department of Public Works, Francis G. Ward, Comr., for constructing 18 to 10-in. tile sewers in Hollywood Pl., Lang and Weber Aves., Theodore, Clayton and other streets.

PHILLIPSBURG, N. J.—MICHAEL O'HAGEN was awarded contract on July 12 by the town for the construction of a concrete surface water sewer in Meadow Ave., at $7,000.

*VENTNOR CITY, N. J.—Bids for the construction of sewage disposal works will be received by the Common Council, by the President until 8 p. m., Aug. [illegible]. W. I. Risley is City Engr.

*MADISON, N. J.—Bids are asked until 6 p. m., Aug. 8, by the Borough for the construction of about 12 miles of sewers from 8 to 18 ins. diameter, with manholes, flushtanks and other appurtenances, and a small sewer ejector station. Hering & Fuller, 170

Broadway, New York, are Engrs. Incorrectly noted under Proposal Advertisements as Aug. 10.

HAZLETON, PA.—The city is planning to construct a sewer system and sewage disposal plant. Estimated cost, $500,000. Barton E. Langman is City Engr.

RICHMOND, VA.—The city contemplates the construction of a sewer along Virginia Ave. through River View to the river, which will require the construction of a tunnel through granite, 1,800 ft. C. E. Bolling is City Engr.

ERWIN, TENN.—The city has voted $20,000 of bonds for sewer construction and street improvements.

XENIA, OHIO.—Contract for the construction of sewer here has been awarded to HUONKER & WILLIAMS, of Springfield, Ohio, at $12,000.

FINDLAY, OHIO.—Contract for the construction of five miles of stone pipe in Delaware Township, bids opened on July 8, has been awarded to the HANCOCK STONE CO., of Findlay, at $16,890.

GALION, OHIO.—Bids are asked by the Public Service until noon, Aug. 1, for the necessary labor and materials for the construction of sanitary sewer laterals. The plans and estimates of the City Engineer contemplate the use of vitrified sewer pipe in quantity as follows: 4-in., 86,812 ft.; 6-in., 1,434 ft.; 8-in., 43,446 ft.; 10-in., 1,472 ft.; 12-in., 435 ft.; 15-in., 2,402 ft.; excavation estimated at 42,441 cu. yds.; manholes, 92; c.-i. pipe required is estimated as follows: 16-in., 50 ft.; 6-in., 90 ft.; 8-in., 21 ft.; specials, 1.46 tons. E. C. Yochem is Clk.

JACKSON, OHIO.—ELMER E. McCONNELL, of Kenton, Ohio, was awarded contract on July 8 for a large sewer here to cost $14,000.

ZANESVILLE, OHIO.—Bids will be received until July 22 by the Board of Public Service, M. L. J. Logsdon, Secy., for constructing brick and pipe sewers in Vroom Alley, and pipe storm water sewers in Luck Ave.

NILES, OHIO.—Bids are asked until noon, July 23, by the Director of Public Service for the construction of sewers in various streets.

CANTON, OHIO.—Bids will be received until July 27 by the Board of Public Service, W. L. Barr, Clk., for constructing a sanitary sewer in Maple Ave., requiring 3,100 lin. ft. of 8-in. sewer pipe, etc.; in Liberty St., a storm sewer, requiring 2,630 lin. ft. 8-ft. 2-ring and 230 lin. ft. 8-ft. 3-ring brick block sewer, 340 lin. ft. 15-in. pipe, etc. W. H. Weber is City Engr.

DELPHI, IND.—Bids are asked by the Common Council until 7.30 p. m., July 26, for the construction of a district sewer here. Talmar R. Arnold is City Clk.

SAVANNA, ILL.—We are officially advised that bids will be received by the city until 7.30 p. m., July 26, for the construction of about 1,000 ft. of 8-in. sanitary sewers, with manholes, lampholes, etc. Jacob Plattenberger is City Engr.

DANVILLE, ILL.—Bids are asked until Aug. 1 by W. E. Winn, City Engr., for constructing 1,600 ft. of 8-in. vitrified pipe sewers, five manholes and a flush tank in Roselawn, and for storm water sewers. Estimated cost, $30,000.

LIBERTYVILLE, ILL.—Bids are asked by the Board of Local Improvements until 6 p. m., July 22, for a system of sewers and appurtenances here. Henry B. Eger is Pres.

GLENCOE, ILL.—Contract for the south ends sewer system has been awarded to FRANK R. MORTIMER, of Glencoe, at $41,620.

HOOPESTON, ILL.—Bids will be received until Aug. 1 by H. C. Findley, Mayor, for constructing a sanitary sewage system. Estimated cost, $65,000. Frank Payne is Engr., Adams Bldg., Danville.

WHEATON, ILL.—An extension of the sewerage system and the construction of a larger outlet is projected, and will be decided upon shortly. The total cost is estimated at $32,895, including trenching, pipe laying, manholes, hauling and backfilling. The principal items are as follows: 2,890 ft. of 60-in. cement pipe at $5.50; 842 ft. of 42-in. cement pipe at $3.95 per ft.; 2,790 ft. of 36-in. cement pipe at $3.40; 142 ft. of 24-in. tile pipe at $2; 22 manholes at $25 each. H. A. Schryver is Mayor. A. L. Webster is City Engr.

HAWARDEN, IOWA.—Bids will be received by T. J. Reeves, City Clk., until Aug. 3, for 18,400 ft. of 8 to 12-in. vitrified pipe sanitary sewers.

SIOUX CITY, IOWA.—Bids are asked at the office of the City Clerk until 3 p. m., July 22, for all labor and material for the construction of a 6-in. sanitary sewer here.

LEON, IOWA.—We are officially advised that bids were received by the city on July 13 for the construction of the sanitary sewer system. The O'Farrell Construction Co., of Dubuque, submitted the lowest bid. Charles P. Chase, Clinton, Iowa, is Engr.

PELLA, IOWA.—We are officially advised that bids were received as follows on July 6 by the city for the construction of sewers here: City sewer: Cook Construction Co., Des Moines, Iowa, $27,568; O'Farrell Contracting Co., Dubuque, Iowa, $19,329; J. W. Turner Improvement Co., Des Moines, $18,996; W. D. Yeager Co., Cedar Rapids, Iowa, $18,619; Independent Construction Co., Davenport, Iowa, $18,197; Katz-Craig Construction Co., Omaha, Neb., $18,142; H. J. CATHROE, Omaha, Neb., $16,968 (awarded contract). Outlet: H. J. Cathroe, Omaha, $11,633; Cook Construction Co., Des Moines, $11,432; Independent Construction Co., Davenport, $10,965; Katz-Craig Construction Co., Omaha, Neb., $9,018; J. W. Turner Improvement Co., Des Moines, $9,104; O'Farrell Contracting Co., Dubuque, $8,530; W. D. YEAGER, Cedar Rapids, $7,987 (awarded contract). Charles P. Chase, Clinton, Iowa, is Engr.

BIWABIK, MINN.—See item under Water Supply—Irrigation.

LEAVENWORTH, KAN.—Bids are asked by the Department of Justice, at the office of R. V. La Dow, Supt. of Prisons, until 11 a. m., Aug. 3, for furnishing and delivering at the U. S. Penitentiary here, sewer and water pipe.

HUTCHINSON, KAN.—Contract for extending mains and laying laterals for five different sewers was let on July 5 by the City Commissioners to DAVIS & EVERETT, at $5,590.

SABETHA, KAN.—We are officially advised that bids were received on July 12 by the city for sanitary sewers, including two separate sewage disposal works as follows: Sewers: T. C. Brooks & Son, Jackson, Mich., $22,855; H. C. Goss, Tonkawa, Okla., $22,146; P. A. JOHNSON & CO., 437 North 10th st., Kansas City, Kan., $19,206 (awarded contract); W. F. Plummer & Co., Springfield, Mo., $24,010; J. W. Smith & Son, Oklahoma City, Okla., $21,786; E. D. Reed, Clay Center, Kan., $23,344; Katz-Craig Construction Co., Omaha, Neb., $21,427; Hamilton Bros., Newton, Kan., $23,145; New State Paving Co., Tulsa, Okla., $20,156; J. W. Kelso, Iola, Kan., $22,240; R. J. & W. M. Boyd Co., Kansas City, Kan., $22,274. Sewage disposal plants: H. C. Goss, $13,826; W. F. Plummer & Co., $14,071; J. W. Smith & Son, $13,040; Matthews Construction Co., Kansas City, Mo., $14,706; E. D. Reed, $16,363; Katz-Craig Construction Co., $14,282; Hamilton Bros., $15,078; New State Paving Co., $13,384; J. W. Kelso, $12,196; R. J. & W. M. Boyd Co., $14,076; Albert Stimson, Sabetha, $13,789 and $14,389; LEWIS & KITCHEN, 901 Broadway, Kansas City, Mo., $12,500 (awarded contract). Burns & McDonnell are Consulting Engrs.

HURON, S. DAK.—Contract for constructing lateral sewers in Dakota Ave., bids opened on July 5, has been awarded to the BROOKINGS CONSTRUCTION CO., of Brookings, at $7,697.

MISSOULA, MONT.—We are officially advised that the city has awarded contract to JAMES M. KENNEDY CONSTRUCTION CO., Salt Lake City, Utah, for the construction of the sanitary sewer system here, at $198,645. The work required is approximately as follows: Total length of sewers, 40,746 ft.; excavation and refill, 940 cu. yds. solid rock, 4,700 cu. yds. loose rock; 88,250 cu. yds. earth, 93,800 cu. yds., total excavation and refill; embankment, 1,100 cu. yds.; D. S. vitrified pipe, 7,260 ft. 8-in., 12,610 ft. 9-in., 5,950 ft. 10-in., 3,080 ft. 12-in., 1,950 ft. 15-in., 1,160 ft. 18-in., 900 ft. 20-in., 1,440 ft. 24-in., 2,750 ft. 27-in., junctions, 440 8 × 6 × 2½ Y's, 675 9 × 6 × 2½, 300 10 × 6 × 2½, 140 12 × 6 × 2½, 40 15 × 6 × 2½, 60 18 × 6 × 2½, 30 20 × 6 × 2½, 70 24 × 6 × 2½, 35 27 × 6 × 3; pipe laying, 8,360 ft. 8-in., 14,610 ft. 9-in., 6,700 ft. 10-in., 3,425 ft. 12-in., 2,060 ft. 15-in., 1,300 ft. 18-in., 980 ft. 20-in., 1,621 ft. 24-in., 2,865 ft. 27-in.; manholes, 5-ft. diameter, 6; 6 to 10 ft. high (brick or concrete); 5-ft. diameter, 2; 10 to 14 ft. high (brick or concrete); 5-ft. diameter, 4; 14 to 19 ft. high (brick or concrete; 4-ft. diameter, 6; 6 to 10 ft. high (brick or concrete); 4-ft. diameter, 50; 10 to 14 ft. high (brick or concrete); 4-ft. diameter, 25; 14 to 19 ft. high (brick or concrete); flush tanks, 4½-ft. diameter, 6; 8 to 12 ft. high (brick or concrete); 4½-ft. diameter, 12; 12 to 16 ft. high (brick or concrete); combination, 1; 9 ft. high (brick); open conduit (concrete), 520 ft., 27-in. diameter; concrete bulkhead, one at mouth of main sewer; reinforced-concrete bridge, one over irrigation ditch; lumber, 100,000 ft. B. M.

ST. LOUIS, MO.—Bids have been opened by the Board of Public Improvements for constructing the first section of the Glaise Creek joint district sewer. Contract has been awarded to the GEORGE G. PRENDERGAST CONSTRUCTION CO., of St. Louis, at the following prices: 76,100 cu. yds. excavation, 93 cts.; 7,000 cu. yds. Class A concrete, $7.80; 500 cu. yds. Class C concrete, $7.15; 900 cu. yds. brick masonry, $9; 970 cu. yds. vitrified brick masonry, $9; 430 lin. ft. 6 to 3-in. pipe sewer, 40 cts. to $4; 76,800 lin. ft. ¾-sq. in. steel bars, 1¼ cts.; 178,700 lin. ft. ½-sq. in. steel bars, 2 cts.; 93,300 lin. ft. ⅝-sq. in. steel bars, 3½ cts.; 45,000 lin. ft. ¾-sq. in. steel bars, 4¼ cts.; 53,800 lin. ft. ⅞-sq. in. steel bars, 6 cts.; 17,700 lin. ft. 1-sq. in. steel bars, 8 cts.; 164 pieces 6-in. junction slants, $1; 5,400 lbs. cast iron, 3 cts.; 1,250 lbs. wrought iron, 5 cts. Total, $161,616. W. B. Dryden is Secy. Bd.

BELTON, TEX.—All bids opened on July 5 by the Belton Sanitary Sewer Co., Charles B. Smith, Secy., for furnishing material and constructing a sewer system have been rejected. The company will construct its system, employing labor and purchasing material. The sewer system includes approximately 23,415 ft. of 12-in., 10-in. and 8-in. vitrified pipe sewers, 67 manholes and ten flush tanks. The sewage purification plant approximately 3,556 cu. yds. earth excavation, 366 cu. yds. rock excavation, 118 cu. yds. reinforced concrete, 80 cu. yds. plain concrete, 500 cu. yds. broken stone, piping and accessories. Fountain-Shaw Engineering Co., Andrews Bldg., Dallas, are Engrs.

BEAUMONT, TEX.—The city will extend the sewer system. Bids will be received until Aug. 2. C. L. Scherer is City Engr.

GALVESTON, TEX.—Only one bid, that of Heffron & Falligant, of Galveston, was received on July 7 by the City Commission for the sewer to be constructed in Eighth St.

*PORT CROCKETT (Galveston post-office), TEX.—Bids are asked by Capt. P. Whitworth, Q. M., U. S. A., until 2 p. m., Aug 22, for a sanitary sewer system and sewage pumping plant.

YUKON, OKLA.—The city has voted $10,000 of bonds for the construction of a sewer system.

BURLINGTON, OKLA.—The TONKAWA CONSTRUCTION CO., of Tonkawa, Okla., has been awarded contract by the Council for the construction of the sanitary sewer system, at $33,112. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

*PASADENA, CAL.—ANDREW HOLLOWAY has been awarded contract to construct a septic tank at the municipal sewer farm, at $16,250.

PASADENA, CAL.—Bids are asked by the city until Aug. 9, for the construction of a reinforced-concrete storm water sewer. Estimated cost, $155,000. S. J. Van Ornum is City Engr.

COLTON, CAL.—Bids will be received by the Board of City Trustees, W. Davenport, Clk., until Aug. 1, for constructing a sewer system, laterals, flush tanks and manholes. Estimated cost, $60,000. W. L. Brown is City Engr.

ROSEVILLE, CAL.—See item under Light and Power Plants.

SAN FRANCISCO, CAL.—Contract for the construction of the sewer in Fourth and Kentucky Sts., bids opened on July 6, has been awarded by the Board of Public Works to the METROPOLIS CONSTRUCTION CO., of San Francisco, at $33,182. Marsden Manson is City Engr.

*SANDPOINT, IDAHO.—We are officially advised that bids were received as follows on July 11 by the Sewer Committee for constructing Section No. 1 of District No. 1 of the Sandpoint sewer system: A. BURNS, Spokane, Wash., $37,597 (awarded contract); Spokane Construction Co., Spokane, $48,483; Mulligan & Jennings, Spokane, $73,402. Foster & Cane are Engrs., Sandpoint.

TWIN FALLS, IDAHO.—Bids will be asked about September for constructing pipe sewers. Estimated cost, $36,000. Stuart H. Taylor is City Clk.

WINNIPEG, MAN.—Bids will be received until noon July 26 by the Commissioners of the Transcontinental Ry., at Ottawa, P. E. Ryan, Secy., for constructing a main sewer line for the Winnipeg shops, on the line of the Transcontinental Ry., about six miles east of Winnipeg, extending from the pump house and terminal yard to the Seine River. S. R. Poulin is Dist. Engr., St. Boniface, Man.

STREETS AND ROADS.

PORTLAND, ME.—We are officially advised that contract has been awarded to the HASSAM PAVING CO., of Worcester, Mass., at $8,257, for building a section of bituminous macadam state road, about 5,340 ft. Bids were opened on July 15. Bion Bradbury, Jr., is Comr. Pub. Wks.

EAST CAMBRIDGE, MASS.—Bids are asked by the Middlesex County Commissioners until 10 a. m., July 23, for building a road in Drocut, 6,550 ft. in length.

EAST PROVIDENCE, R. I.—See item under Bridges.

HARTFORD, CONN.—Plans for proposed state road work have been received by the State Highway Commissioner as follows: From A. B. Hill, Engr., 9,300 lin. ft. on the New York and Boston Post road in the town of Guilford, and 2,300 lin. ft. of the Seymour state road in the town of Woodbridge; from Samuel H. Mackenzie, Engr., 10,500 lin. ft. on the Southington Mountain-Waterbury Turnpike in the town of Cheshire; from F. L. Ford, Engr., 2,300 lin. ft. on Albany Ave., in the city of Hartford; from J. E. McElroy, Engr., 8,000 lin. ft. on the Black Rock Turnpike, in the town of Fairfield; from John D. Egan, Engr., 3,900 lin. ft. on the Springfield road and 11,200 lin. ft. on the North road, in the town of Enfield.

Contracts for the construction of state road work, bids for which were received at the office of the State Highway Commissioner on July 11, have been awarded as follows:

Town of Plainville, 7,298 lin. ft. macadam-telford, including one 15-in. tile pipe culvert, 14-ft. roadway, to O. T. BENEDICT, Pittsfield, Mass., at $8,685 for macadam and 79 cts. per lin. ft. extra for telford and 75 cts. for rubble drain.

Town of Farmington, 9,104 lin. ft. macadam-telford, including one 12-in., two 15-in. and two 18-in. tile culverts and a reinforced-concrete arch culvert, 14-ft. roadway, to O. T. BENEDICT, Pittsfield, Mass., at $14,475 for macadam and 60 cts. per lin. ft. extra for telford and 75 cts. for rubble drain.

Town of Warren, 1,900 lin. ft. graded-telford road, including two 15-in. and one 24-in. tile pipe culverts, 14-ft. roadway, to GOODMAN & TRUMBULL, Litchfield, Conn., at $2,622 for grading, 90 cts. per lin. ft. extra for telford and rubble drain.

Town of Bolton, 3,640 lin. ft. graded-telford road, including one 12-in. tile culvert, 14-ft. roadway, to GOODMAN & TRUMBULL, Litchfield, at $4,280 for grading and 90 cts. per lin. ft. extra for telford and rubble drain; 60 cts. per sq. yd. for cobble gutters.

Town of Avon, 7,700 lin. ft. macadam-telford road, including five 24-in., four 18-in. and one 15-in. tile culverts and one reinforced-concrete arch culvert, 14-ft. roadway, to PETER SUZIO, Hartford, at $30,000 for macadam, $2.40 per lin. ft. for telford, $1.65 for rubble drain, 60 cts. per sq. yd. for cobble gutters.

Town of West Hartford, 9,885 lin. ft. macadam-telford road, including one 20-in., five 18-in., two 15-in. and three 12-in. tile culverts, 14-ft. roadway, to PETER SUZIO & CO., Hartford, at $38,551 for macadam, $2.40 for telford, $1.65 for rubble drain, 60 cts. per sq. yd. for cobble gutters.

Town of Mansfield, first section, 1,600 lin. ft. gravel-telford road, 16-ft. roadway, to H. L. M. LADD, New London, at $2,900 for grading and 60 cts. per lin. ft. for telford; second section, 2,500 lin. ft. graded-telford road, including two 20-in. tile culverts, 16-ft. roadway, to CLAYTON T. CURTISS, Glastonbury, Conn., at $6,875 for grading, 75 cts. per lin. ft. for telford. All bids for the third section, 13,941 lin. ft. on the Storrs Colle road, were rejected, as the lowest bid exceeded the special appropriation made for this work.

Town of Winchester, 10,750 lin. ft. macadam-telford road, including ten 15-in., five 18-in., five 20-in. and three 24-in. tile culverts, 14-ft. roadway, to JOHN DE MICHIEL & BRO., Torrington, Conn., at $3.36 per lin. ft. for macadam, $3.80 per lin. ft. for telford, $1 for rubble drain and $5 per cu. yd. for masonry walls. List of bidders noted last week.

HARTFORD, CONN.—Bids for the construction of state road work were received at the office of the State Highway Commissioner on July 18, as follows:

Town of Middlefield, 12,350 lin. ft. macadam-telford road, including one 24-in., one 15-in., one 20-in. tile pipe culverts and two reinforced-concrete arch culverts: A. Brazos & Sons, Middletown, $2.80 per lin. ft. for macadam, $3.40 per lin. ft. for telford, 80 cts. per lin. ft. for rubble drain; F. Arrigon & Bro., Middletown, $3.29, $3.99 and 80 cts.; Roger Kennedy, Middletown, $2.49, $3.10 and $1; O. T. Benedict, Pittsfield, Mass., $2.97, $3.77 and 80 cts.; Suzio & Toner, Meriden, Conn., $2.30, $2.95 and 75 cts.

Town of Middletown, 6,300 lin. ft. macadam-telford road, including two 24-in., one 15-in., two 18-in. and one 20-in. tile culverts: Suzio & Toner, Meriden, $2.95 per lin. ft. for macadam, $3.60 per lin. ft. for telford, 75 cts. per lin. ft. for rubble drain; A. Brazos & Sons, Middletown, $2.58, $3.98 and 80 cts.; F. Arrigoni & Bro., Middletown, Conn., $3.29, $3.99 and 85 cts.; Roger Kennedy, Middletown, $2.49, $3.10 and $1; O. T. Benedict, Pittsfield, $3.39, $4.19 and 80 cts.

HARTFORD, CONN.—Bids for furnishing and laying approximately 8,800 sq. yds. of asphalt wearing surface with concrete base on Woodland St. will be received by the Board of Contract and Supply, Joseph Buths, Secy., until 11 a. m., July 22. In connection with this work the railway company will lay about 5,000 sq. yds. of the same material.

BRONXVILLE, N. Y.—Bids are asked by Frank Dinsmore, Clk. Village of Bronxville until 8 p. m., Aug. 1, for material and labor for grading and paving Tanglewylde Ave., from Midland Ave. to Garden Ave.; Garden Ave., from Tanglelylde Ave. to Underhill Ave.; Underhill Ave., from Garden Ave. to Pondfield Road; Tanglewlyde Ave., from Garden Ave. to Pondfield Road.

LONG ISLAND CITY(L. I.), N. Y.—Bids are asked by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., July 26, for regulating and grading, curbing, recurbing, laying sidewalks, paving with asphalt, etc., various streets.

NEW YORK, N. Y.—Bids are asked by George McAneny, Pres. Boro. of Manhattan, until 2 p. m., July 25, for regulating and repaving with granite block on a concrete foundation the roadways of various streets.

HOOSICK FALLS, N. Y.—We are officially advised that bids were received on July 8 by the Public Improvement Commission for 68,200 sq. ft. of concrete sidewalks, 5,000 sq. ft. concrete driveways, 4,000 lin. ft. concrete curb and gutter, and 7,500 sq. ft. flag walks, relaid, also about 90 sq. yds. of vitrified brick pavement, and 2,700 sq. yds. of bitumen macadam. Contract for sidewalks, curb, gutters, relaying flag walks was awarded on July 13 to the KINGSBURY CONSTRUCTION CO., of Hudson Falls, N. Y., at $73,381. All paving bids were rejected. W. Thomas Wooley is Engr., Municipal Bldg., Hoosick Falls; Sanford L. Cluett is Secy, Comn.

*MERCHANTVILLE, N. J.—Bids are asked until 11 a. m., Aug. 10, by the Board of Chosen Freeholders, Camden, for constructing an amiesite road 14 ft. wide and 85 miles long, known as Chapel Ave., at Merchantville. J. J. Alberson is County Engr.

*NEWARK, N. J.—We are officially advised that bids were received as follows on July 11 by the Committee on Roads and Assessments of the Board of Chosen Freeholders of Essex County, at the Court-house, Newark, for grading and paving with bituminous Telford pavement, Pleasant Valley Way, extending from Bloomfield Ave., Boro. of Verona to Mountain Ave., in the Town of West Orange, a distance of about four miles. J. F. Shanley Co., Union Bldg., Newark, $47,359; George M. Freck, Somerville, N. J., $49,654; Robert Doriety, 166 Ridge St., Newark, $36,781; Osborne & Marcellus Co., Upper Montclair, N. J., $47,479; Francisco Bros., Little Falls, N. J., $46,000; James J. Fusco, 756 Broad St., Newark, $42,530; Philip & Peter Tannerone, Belleville, N. J., $35,283; Monroe Paving Co., 709 Betz Bldg., Philadelphia, Pa., $34,700. Wallace Ougheltree is Dir.

GREENSBURG, PA.—The HALLAM CONSTRUCTION CO., of Washington, Pa., was awarded contract on July 12 by the Borough Council for paving nine sections of highways of the borough at about $17,000.

PITTSBURG, PA.—Bids are asked by R. J. Cunningham, County Controller, until noon, Aug. 3, for the permanent improvement of several public roads and highways.

WILMERDING, PA.—The County Commissioners have awarded contract for macadamizing the old Monroeville Road from Turtle Creek to Monroeville to W. E. HOWLEY at $22,398.

WAYNESBORO, PA.—The Waynesboro Real Estate Development Co. of Waynesboro, will receive bids until 5 p. m., July 30, for grading two proposed streets on their property in South Waynesboro. It is estimated that there will be about 23,000 cu. yds. of material to be moved, of which probably 7,000 cu. yds. will be limestone rock and the balance soft shale and earth. Profiles, specifications and information can be obtained at the office of Clarence Croft, Secy., Waynesboro, or at the offices of J. B. Ferguson & Co., Engrs., Hagerstown, Md.

BALTIMORE, MD.—Bids are asked by the State Roads Commission, Union Trust Bldg., Baltimore, until noon, July 27, for constructing five sections of road, aggregating about 8.34 miles, in the city and county of Baltimore. John M. Tucker is Chn.

Bids are asked by the Board of Awards, care of J. Sewell Thomas, City Register,

until 11 a. m., July 27, for long-leaf yellow pine paving blocks delivered f. o. b. Baltimore. B. T. Fendall is City Engr.

BALTIMORE, MD.—The Baltimore County Commissioners, on July 14, awarded contract for opening and macadamizing Hillsdale Ave., between the Liberty Road and Forest Ave., in the First district, to P. FLANAGAN & SONS, 120 East Lexington St., at $8,500.

We are officially advised that no bids were received on July 14 by the Highway Commission of Baltimore County for a section of road in Baltimore County, 51 miles in length. E. S. Bosley is Secy.

*PENSACOLA, FLA.—Bids for the construction of concrete sidewalks in the city will be received by the Board of Public Works at the City Hall until noon, Aug. 10, to be addressed to L. G. Aymard, Clk. Bd. The work contemplated consists of approximately 525,000 sq. ft. of concrete sidewalks. Specifications and blank form of proposal and contract can be obtained from the office of L. Earle Thornton, City Engr., Room No. 203 City Hall.

LAKE CITY, FLA.—We are officially advised that no bids were received on July 12, by J. W. Layne, Secy. Bd. of Pub. Wks., for constructing about 16,000 sq. yds. of vitrified brick pavement and about five miles of cement sidewalks.

*GULFPORT, MISS.—Bids will be received by the Mayor and Board of Aldermen until 8 p. m., Aug. 2, for furnishing material and constructing approximately 13,000 sq. yds. of cement sidewalks in accordance with plans and specifications now on file in the office of H. D. Shaw, City Engr.

EUPORA, MISS.—The Mayor and Board of Aldermen on July 7 awarded contract for the construction of $10,000 worth of concrete sidewalks and crossings to J. T. OSBORNE, of West Point. The specifications demand that work commence within ten days and that the walks be completed within 90 days.

LELAND, MISS.—Bids are asked until noon, Aug. 2, by the Board of Mayor and Aldermen for the construction of sidewalks in the town in accordance with the plans and specifications now on file with the Clerk, and in accordance with an ordinance adopted April 5, 1910, and the instructions to bidders on file with Clerk. The amount of work to be done under the ordinance is to be determined at the time of opening of the bids, by reference to Sections 4 and 5 of the ordinance. R. W. Garrison is Mayor.

LISBON, OHIO.—Contract for grading Stull Hill, near Lisbon has been awarded to J. D. SCOTT, of Homeworth, at 28 cts. a cu. yd.

COLUMBUS, OHIO.—The Board of County Commissioners of Franklin County has decided to macadamize West Broad St., from the city limits to the Cleveland, Chicago, Cincinnati & St. Louis Ry. tracks, a distance of 4,500 ft. The work will be done under the State Aid Statute.

Bids will be received by the Board of County Commissioners of Franklin County until Aug. 12 for the necessary labor and materials for macadamizing Hilliard and Dublin Road a distance of about 56,000 ft. The contract will be awarded in three sections, the first extending from Wyandotte Grove to the south corporation line of Dublin and another section from the north corporation line of Hilliard north to the Hayden Run pike, and the third section from the Britton Road running north from Hilliard. John Scott is Clk. Bd.

COLUMBUS, OHIO.—Contract for laying cement sidewalks at the Columbus Barracks has been awarded to the ACME PAVING CO., of Columbus. The contract for laying brick pavement at the barracks to the extent of 5,212 sq. yds. was awarded to D. E. SULLIVAN & SON, of Columbus.

NAPOLEON, OHIO.—Bids will be received by the Board of County Commissioners until July 22 for improvement of joint roads in Henry County known as Nos. 91, 87, 78, 88, 96, 95, 93, 92, 94 and 97. The total mileage of the roads to be improved is 25 miles.

PAULDING, OHIO.—Contract for macadamizing the Auglaize pike has been awarded to the LEWISBURG STONE CO., of Lewisburg, at $29,961. The contract is in two sections.

WAPAKONETA, OHIO.—Bids were opened on July 9 for the improvement of the Eisley pike, a distance of two miles, as follows: A. J. Walther, $3,893; Copeland & Howell, $4,622; Joseph Rapp, $3,974; John Hunt, $4,658; Karch & Gisbaugh, $3,976. The contract was awarded to A. J. WALTHER.

CARROLLTON, OHIO.—COSS & MYERS, of Wheeling, W. Va., have been awarded contract for paving here at about $42,000.

NORWALK, OHIO.—Bids were opened on July 7 for paving Monroe, Case, Whittlesley, Milan and Townsend Sts. as follows: Monroe St. and Case Ave., George B. Herring & Son, Mansfield, $9,619; The Buckeye Engineering Co., Norwalk, $10,094; W. S. Pace, Cleveland, $9,795; Joseph L. Smith, Lorain, $10,720; James Quinn, $12,316. Whittlesley Ave., George B. Herring & Son, $4,138; The Buckeye Engineering Co., $4,518; W. S. Pace, $4,450; Joseph L. Smith, $4,460; James Quinn, $5,401. Milan St., George B. Herring & Son, $5,410; Buckeye Engineering Co., $4,710; W. S. Pace, $4,552; Joseph L. Smith, $4,694; James Quinn, $5,465. Townsend Ave., Buckeye Engineering Co., $2,881.

YOUNGSTOWN, OHIO.—Bids will be received by the Board of Township Trustees of Ellsworth Township, Mahoning County, until 10 a. m., July 26, at the Town Hall in Ellsworth Center, Mahoning County, for furnishing the necessary labor and material to macadamize the north and south center road from the center north 6,800 ft. Specifications may be seen at the office of the township clerk. F. C. Allen is Township Clk.

STEUBENVILLE, OHIO.—Bids are asked until noon, July 25, by the Director of Public Service for furnishing the necessary labor and materials for the improvement of West Market St. from a point of Liberty St. (The Old Mill) to Steele Ave. by the construction of the necessary retaining walls, curbs, drains, etc., and a stone block pavement, according to the plans and specifications on file in the office of the City Engineer.

MOUNT GILEAD, OHIO.—The Commissioners of Morrow County will receive bids until 11 a. m., Aug. 5, for furnishing all materials and performing all the work, or such parts thereof, as bidders may see proper for the construction of what is known as the Gilead Road Improvement No. 2, Gilead Township. Total length of road, 1.75 miles. Clifton Sife is County Audr.

CANTON, OHIO.—Bids are asked by Stark County Commissioners until 10 a. m., Aug. 5, for grading, draining and paving with brick 2.54 miles of road in Sugar Creek Township. J. H. McConnell is County Audr.

INDIANA.—Bids for the construction of gravel roads in Indiana will be received as follows:

Aug. 1, at 10 a. m., at Jeffersonville, by the Commissioners of Clark County for the construction of 3.67 miles of gravel road in Monroe Township. Peter Nachand is Audr.

Aug. 1, 10 a. m., at Danville, by the Commissioners of Hendricks County for the construction of a gravel road in Union Township. Total length of road, 9,341.5 lin. ft.

Aug. 1, 2 p. m., at Huntington, by the Commissioners of Huntington County, for the construction of a gravel road on the boundary line of Rock Creek and Union Townships. John W. Weaver is Audr.

Aug. 2, 2 p. m., at Bloomfield, by the Commissioners of Greene County for the construction of a macadam road in Stockton Township. Peter M. Cook is Audr.

Aug. 2, 10 a. m., at Danville, by the Commissioners of Hendricks County, for the construction of 14,560.5 lin. ft. of gravel road in Washington Township. William M. Nichols is Audr.

Aug. 2, 10 a. m., at Crawfordsville, by the Commissioners of Montgomery County, for the construction of a macadamized road in Brown Township. Bennett B. Engle is Audr.

Aug. 2, 1.30 p. m., at Rockville, by the Commissioners of Park County, for the construction of a gravel road in Washington Township. H. A. Henderson is Audr.

Aug. 2, at noon, at Winamac, by the Commissioners of Pulaski County for the construction of four gravel roads in Beaver Township. Length of roads, 6½, 2½, 2 and 1½ miles, respectively; six gravel roads in Cass Township, length of roads, 5½, 4, 1, 2, 2.4 and 2.1 miles, respectively. Ellis S. Rees is County Audr.

Aug. 6, 10 a. m., at Tipton, by the Commissioners of Tipton County, for the construction of the following gravel, stone and macadam roads: The Decker Road in Madison Township, length, 1,360 ft., 33-ft. wide roadway, 6½ yds. stone to the rod; the Thompson Road in Cicero Township, length of road 1,389 ft., width of roadway 66 ft., grade 20 ft., 741 ft. of said road to contain crushed stone 20 ft. wide, 8 ins. deep at the sides, 16 ins. deep in the center and quantity of stone equal to 122.9 cu. yds. to yd., 648 ft. of said road to be 10 ft. wide, 8 ins. at sides and 16 ins. deep in the center, and a quantity of 61.9 cu. yds. per lin. rod; the Mitchell Road in Cicero Township, length 2,272 ft., width of roadway 33 ft., 61.9 yds. of stone to rod; the Laudig Road in Cicero Township, length 8,598 ft., width of road 32 ft., stone to be in quantity equal to 61.9 cu. yds. per lin. rod; the Campbell Road in Jefferson Township, length of road, 6,615 ft., width of roadway, 32 ft., grade 22 ft., gravel 10 ft. wide, 8 ins. deep at sides and 16 ins. deep in the center and in quantity equal to 61.9 cu. yds. per lin. rod. J. F. Barlow is Audr.

RICHMOND, IND.—The Commissioners of Wayne County on July 12 awarded contract to JOHN F. CRONIN & CO., of Richmond, for the improvement of the National Road, about three miles in length, at $52,000.

LAPORTE, IND.—We are officially advised that bids were received by the Commissioners of Laporte County on July 14 for the construction of 39,520 ft. of macadamized road in Center Township. Contract has been awarded to WILLIAM B. HUTCHINSON, of Michigan City, Ind. C. H. Miller is County Audr.

COVINGTON, IND.—We are officially advised that bids were received on July 5 by the Commissioners of Fountain County for the construction of gravel roads in Jackson and Van Buren Townships. Contract has been awarded to HAYNES & WAYMORE, of Covington. W. B. Gray is Audr.

DETROIT, MICH.—The Common Council has directed the Department of Public Works to advertise for bids for paving the following streets: Boston Boulevard, with asphalt, estimated cost, $31,620; Lillibridge St. with cedar blocks, estimated cost, $4,564. Both on concrete foundations, with medina, borea or other approved curbing.

The Common Council has awarded the following contracts for paving: Shipard Ave., with sheet asphalt to T. E. CURRIE, Penobscot Bldg., at $1,363; McGraw Ave., to JULIUS PORATH, Penobscot Bldg., at $8,044; Butternut St., to F. PORATH & SON, 878 23th St., with cedar blocks at $5,916; Hudson Ave., to JULIUS PORATH, Penobscot Bldg., at $2,339; Waterloo St., to W. W. HATCH & SON, Penobscot Bldg., $2,072.94; North Grand Boulevard, with brick, to JULIUS PORATH, Penobscot Bldg., at $6,330; 23d St., with sheet asphalt, to F. PORATH & SONS, at $6,750, all on concrete foundations. J. J. Haarer is Comr. Pub. Wks.

CARMI, ILL.—A. W. EISENMAYER, of Granite City, Ill., has been awarded contract by the Board of Local Improvements for constructing the new paving district. Estimated cost, $60,000.

PEORIA, ILL.—Bids are asked by the City Council until 2 p. m., July 25, for resurfacing with asphalt North Madison Ave., from Hamilton to Cornhill Sts. George F. Simmons is Pres.

CHICAGO, ILL.—Contracts for creosoted block paving of four downtown streets at a cost of about $65,000 were let by the Board of Local Improvements on July 8 to the CITIZENS' CONSTRUCTION CO. The streets for which contracts were let are Adams St., from State to Market Sts.; Congress St., from Wabash to Michigan Aves.; La Salle St., from Madison St. to Jackson Boulevard; Monroe St., from Dearborn St. to Michigan Ave.

BATAVIA, ILL.—We are officially advised that the city will receive bids about July 30 for bituminous macadam pavement. Estimated cost, $28,000. B. E. Sperry is Mayor.

NAPERVILLE, ILL.—We are officially advised that bids will be asked by the city about Oct. 1 for 61,850 yds. of macadam bituminous filled pavement, 39,370 ft. of cement curb, 16,000 cu. yds. of grading and 12,000 ft. of drainage. Estimated cost, $95,000. W. S. Shields Co., Hartford Bldg., Chicago, Ill., are Engrs.

CHAMPAIGNE, ILL.—We are officially advised that the city will receive bids about Aug. 17 for paving Fourth St. Estimated cost, $31,000. O. L. Gearhart is City Engr.

CARTERVILLE, ILL.—We are officially advised that the city will receive bids for 18 or 19 miles of concrete walk about Aug. 1. Estimated cost, 10 cts. per sq. ft. John A. Musgrave is City Clk.

*WAUKESHA, WIS.—We are officially advised that bids were received as follows by the city on July 11 for pavement on White Rock Ave., East Park Ave., Cook and Center Sts. and Lincoln Ave.: ADVANCE CONSTRUCTION CO., Waukesha, $51,347 (awarded contract); Marquette Construction Co., Chicago, Ill., $52,079; A. J. Hewitt, Milwaukee, Wis., $53,306; J. Hildebrand, Milwaukee, $53,382; J. Stauchfield, Fond du Lac, Wis., $54,219; Miracle Construction Co., Minneapolis, Minn., $57,010. The work includes 31,000 yds. of tar macadam and 5,770 yds. of brick.

HAMPTON, IOWA.—Bids will be received until Aug. 1 by the City Clerk for the construction of about 19,000 sq. yds. of concrete pavement and the necessary curbing and grading. Hall & Adams are Engrs., Hampton.

*MARSHALLTOWN, IOWA.—All bids for paving various streets and alleys here were rejected by the city on July 18. Bids will be readvertised. The work comprises approximately 12,700 sq. yds. of brick block paving and 4,800 lin. ft. of granite curb.

OSCEOLA, IOWA.—We are officially advised that bids were received on July 14 by W. N. Temple, City Clk., for constructing approximately 13,000 sq. yds. of paving and 8,000 lin. ft. of cement curbing during the year 1910. Contract has been awarded to WILLIAM HORRABIN, of Iowa City, Iowa. J. L. Hyland is City Engr.

*KANSAS CITY, KAN.—See item under Miscellaneous Contracts: Levee.

FORT LEAVENWORTH, KAN.—Bids are asked until 11 a. m., July 30, by Capt. William D. Davis, Q. M., U. S. A., Fort Leavenworth, for the construction of roads walls, etc., here.

FORT RILEY, KAN.—Bids are asked until Aug. 11, by Capt. W. M. Whitman, Constr Q. M., Fort Riley, for about 4,500 cu. yds. of grading, 6,600 sq. yds. macadam surface, 3,900 lin. ft. driveway curb, 8,950 sq. yds. concrete sidewalks, crossings, steps, etc., catch basins and culvert pipe at this post.

YANKTON, S. DAK.—Bids will be received by the City Auditor until 8 p. m., July 25, for the construction of a sidewalk on the east side of Green St. along and in front of Lots 6, 7, 8 and 9, Block 38.

JEFFERSON BARRACKS, MO.—All bids for constructing roads, walls, etc., received here on June 30 have been rejected. New bids are asked until 11 a. m., July 25, by Capt. Stanley H. Ford, Q. M., U. S. A.

SAPULPA, OKLA.—PETERS BROS. PAVING CO. have secured contract for asphalt paving here at $40,000.

PROSSER, WASH.—We are officially advised that no bids were received on June 29 by the State Highway Board for macadamizing State Aid Road No. 14-58, known as Euclid Road, Benton County. Henry L. Bowlby is Secy.

TACOMA, WASH.—The Commissioner of Public Works has awarded contract for paving Commerce St. with stone blocks to KEASEL & McDOWELL LOGGING CO. at $15,970. JOSEPH WARTER & CO. were awarded contract for laying asphalt on the alley between North G St. and Yakima Ave., from Second to Eighth Sts.

WALLA WALLA, WASH.—The PACIFIC PAVING CO. has been awarded contract for the improvement of North Rose St. and Isaacs Ave., distance of two blocks, at $4,530.

SPOKANE, WASH.—Contract for the Cannon Hill paving has been awarded to the J. T. HILL CO., of Chicago, at $438,171.

SPOKANE, WASH.—Contract for paving in the Fifth Ward District in Keystone Addition has been awarded by the Board of Public Works to MITCHELL BROS. Estimated cost, $87,600.

SEATTLE, WASH.—P. J. McHUGH has been awarded contract for paving Lakeview Ave., between Eastlake Ave. and Nelson Pl., at $32,649. R. H. Thomson is City Engr.

ASHLAND, ORE.—See item under Light and Power Plants.

PORTLAND, ORE.—Contract for paving Lombard St., between Westanna and Wabash Aves., on the Peninsula, has been awarded to the HASSAM PAVING CO., at $127,545. The same contracting company has submitted a bid of $63,269 for the paving of Mississippi Ave., between Goldsmith and Prescott Sts.

REDDING, CAL.—The Supervisors of Shasta County on July 7 opened bids for completing the west side road from Kennett to Antler. CHRIS STABLER, of Redding, secured contract at $10,929 [illegible] Division 1. MATT WENGLER, of Red[illegible] S. received contract at $11,250 on Divisio[illegible]

PASADENA, CAL.—The J[illegible] R. OTT CONSTRUCTION CO. has bee[illegible]arded contract for the curbing, gutterin[illegible]d oil macadam paving of Villa St., at [illegible]50. Lake Ave., at $14,350.

ANDREW HOLLOWAY was [illegible]arded contract for oil macadam paving [illegible] Center St. at $12,300.

Plans and profiles are being [illegible]pared for the construction of 55,000 yd[illegible] oil macadam paving. S. J. Van [illegible]s, City Engr.

MANUFACTURING PLANTS.

(*Denotes that this work is [illegible]ertised in Engineering News.)

NEW BEDFORD, MASS.—The [illegible] Street Ry. Co. has awarded the contr[illegible] to H. P. CONVERSE & CO., 88 Broad S[illegible] for building its car house at New B[illegible]. Estimated cost, $156,000. Louis [illegible] Enterprise New Bedford is Arch.; E. S[illegible]ide, New Bedford, is Gen. Supt.

JAMESTOWN, N. Y.—The [illegible] Metal Mfg. Co., Oscar C. Carlson, Pr[illegible] Fairmount Ave., will erect a 3-st[illegible] factory building, 57 × 150 ft., of brick an[illegible] mill construction, at East Jamestown, to [illegible] about $35,000.

The Jamestown Wheel & M[illegible] Co. will build a manufacturing plant [illegible] Celeron, Chautauqua County. The main [illegible] will be 59 × 142 ft., of brick and mill construction. John W. Rulifson, Wellman Bldg., Jamestown, is Arch.

NIAGARA FALLS, N. Y.—The National Lead & Battery Co., which has increased its capital stock to $5,000,000, has had plans prepared and will soon begin construction of additions to its plant on Elizabeth St., near Buffalo Ave., in the Niagara Power Land Co. manufacturing district. D. M. Hepburn is Managing Dir., Niagara Falls.

The International Acheson Graphite Co. of Niagara Falls, N. Y., has arranged to erect an addition to its works on the land of the Niagara Falls Power Co., in this city. The addition will be in the nature of a furnace room, which will afford capacity for ten or twelve new furnaces. The buildings will be of brick and steel construction and will be erected west of its present works where there is room for further enlargement.

BUFFALO, N. Y.—John H. Coxhead, Arch., 928 Ellicott Sq., has completed plans for a foundry building, 140 × 160 ft., of brick and structural iron, to be erected at North Buffalo by the Jewell Steel & Malleable Co. W. E. Jewell, Pres., 456 Elmwood Ave.

The F. N. Burt Co. will build a 6-story addition to its factory at Niagara St. and Potomac Ave. It will be 57 × 140, of reinforced concrete. Frederick N. Burt is Pres. 1502 Niagara St. Robert J. Reidpath, Builders' Exchange, is Arch.

The Linde Air Products Co., Cecil Lightfoot, Gen. Mgr., 155 Chandler St., will build a brick addition to its factory at Chandler St. and Manton Pl. The addition will be 60 × 150 ft., one story high, of brick and steel construction. Esenwein & Johnson, Ellicott Square Bldg., are Archs.

PHILADELPHIA, PA.—A tract of about 5½ acres, bounded by Stockley St., the Pennsylvania Richmond Branch of the Philadelphia & Reading Ry., and the Chestnut Hill Branch of the Pennsylvania R. R. in the 36th Ward, has been sold by J. Frederick Fiedrich for James R. Shoch to the Tabor Mfg. Co., manufacturers of machinery. It is the intention of the purchaser, whose present plant is located at 18th and Hamilton Sts., to erect a group of buildings upon the land which will be occupied by it immediately upon completion.

HENRY E. BATON, 1221 Arch St., has been granted a permit for a 2-story factory 110 × 98 ft., on the north side of Allegheny Ave., west of 17th St., for A. Mecky & Co. The cost will be $25,000. Plans are by Stearns & Castor, Archs., Stephen Girard Bldg.

GREENVILLE, PA.—The contract for the erection of a round-house at the Bessemer & Lake Erie R. R. Co.'s shops here has been let to the PITTSBURG CONSTRUCTION CO., Diamond Bank Bldg., Pittsburg. The plans call for a reinforced-concrete building containing 17 stalls. T. H. Porter is Ch. Engr., Greenville. Noted fully on July 7.

BALTIMORE, MD.—The Emerson Drug Co., 308 West Lombard St., has been given permission to build its proposed 6-story manufacturing building at the northeast corner of Eutaw and Lombard Sts., to cost $100,000. WILLIAM H. PARKER is the builder.

FLORENCE, S. C.—The Florence Mfg. Co. of Florence, S. C., will soon effect permanent organization and build its proposed cotton factory. Books of subscription are open in the offices of J. Willard Ragsdale, who is the chief promoter of the company and president of a Florence bank. The company's capitalization is $250,000, and it is probable that the mill will be equipped for spinning cotton yarns and weaving cotton cloth. The shares will be $50 each. The board of corporators is as follows: J. Willard Ragsdale, Joseph W. McGown, J. F. Stackley, F. M. Matthews, John Kuker, E. F. Douglas, Henry S. Rose, John L. Barringer, all of Florence, and Charles A. Smith, of Timmonsville, S. C.

BIRMINGHAM, ALA.—The Stockholm Pipefitting Co. will be absorbed by a $500,000 company and will be operated by the new owners and known as the Birmingham Valve & Fitting Co., according to the Birmingham "Age-Herald." Ten acres of land have been secured in East Birmingham upon this site will be constructed four or five buildings of reinforced-concrete and steel construction. The buildings will be fireproof. The plant will manufacture steam fitting and valves. It will employ in the neighborhood of 500 men at the end of the first year, while plans will be outlined to care for [illegible] increases that may be determined upon. Among those interested are W. H. Stockholm, who will probably be Pres.; A. H. Ford, Pres. of the Birmingham Railway, Light & Power Co.;

John L. Kaul, of the Kaul Lumber Co., Harry Coffin; J. H. Adams, of the Sayre Mining Co.; James Weisel, Fred. M. Jackson, C. C. McClarty, of Louisville, Ky.; Forney Johnston, Attorney; Jeptha D. Howe, of St. Louis; Ben Howe, of Louisville.

EVANSVILLE, IND.—The Sanitary Pottery Co. has ordered plans on which bids will be asked for the erection of a manufacturing plant to cost $200,000. The plant will manufacture bathroom equipment.

DETROIT, MICH.—Nettleton & Weaver, Penobscot Bldg., have let the following contracts for a 1-story forge building, 70 × 245 ft., for the Timken Detroit Axle Co., A. R. Demond, Mgr., 132 Clark Ave.: Structural iron work to H. B. LEWIS, 45 Joseph Campeau Ave.; reinforced-concrete work and masonry to WALTER S. VIVIER 189 Avery Ave.; carpentry, to FRANK PAULI, 298 Rowena Ave.; painting, to HARRY J. DEANE CO., 187 Griswold St.

Louis Kamper, Fine Arts Bldg., is preparing plans for a new 3-story automobile factory, 400 × 64 ft., for Scherer & Wadsworth, 280 Jefferson Ave. Cement blocks, composition roof and electric fixtures will be used. Cost, $80,000.

The Bower Roller Bearing Co., of Dayton, Ohio, has been incorporated under Michigan laws, and will erect a factory in Detroit. Capital, $250,000. Charles F. Lawton, 114 Broadway, Detroit, is Secy.

The Baner Steel Body Co. has been incorporated with a capital of $20,000, and will build a factory at Warren Ave. and 15th St. for the manufacture of automobile parts. M. D. Baner is Pres., 762 St. Antoine St.

Varney, Winter & Varney, Equity Bldg., have prepared plans for a 4-story automobile factory, 69 × 536 ft., for the Metzer Motor Car Co., Milwaukee Ave and G. T. R. Stock brick, Bedford stone, reinforced concrete, mill construction, composition roof, structural iron, cement and maple floors and electric fixtures will be used. Cost, $125,000.

BAY CITY, MICH.—Clark & Munger, Shearer Bros. Bldg., have let the following contracts for the World's Star Knitting Co.'s 5-story and basement factory building, 50 × 200 ft., to cost $65,000: Masonry and plastering, to BEN BURBRIDGE, 522 Trumbell Ave.; carpentry, to H. MARTENS, 313 North Johnson St.; gravel roofing, to C. M. HART, 226 North Jefferson St.; plumbing, to SULLIVAN PLUMBING CO., 709 Washington Ave.

SAGINAW, MICH.—C. L. Cowles, 114 North Washington St., is taking figures on a 2-story laundry, 38 × 50 ft., for St. Mary's Hospital. Cost, $20,000.

The same architect has let the following contracts for a factory building, 153 × 262 ft., for the Saginaw Sheet Metal Works: Masonry, carpentry and painting, to A. H. RYCKMAN, Saginaw, Mich.

PORT HURON, MICH.—The Acheson Oildag Co., of Niagara Falls, N. Y., has purchased a factory site of 30 acres at Port-Huron, Mich., and will erect there its prospective plant.

APPLETON, WIS.—Contracts for the erection of the proposed plant of the Appleton Chair Co., to include eight buildings, has been awarded to J. J. LANDRY, of this city. All the buildings are to be of brick; factory, 56 × 112 ft.; warehouse, 56 × 96 ft.; boiler house, 40 × 46 ft. The dry kilns, bending room, sawmill and smaller warehouses make up the list.

LAKE MILLS, WIS.—The Creamery Package Co., 184 Kinzie St., Chicago, has commenced the erection of a plant to consist of seven reinforced-concrete buildings. The approximate cost will be $200,000.

ST. PAUL, MINN.—The Webb Publishing Co., E. A. Webb, Pres., is taking figures for the construction of a 2-story addition to its plant at 61 East Tenth St., city. It will be 56 × 83 ft., of pressed brick, cut stone and reinforced-concrete construction. Reed & Stem, Endicott Bldg., are Archs. Cost, $25,000.

CHAMBERLAIN, S. DAK.—The Dakota Portland Cement Co., which has its headquarters in Sioux Falls, S. Dak., and its manufacturing plant near Chamberlain, is about to construct a cement mill. The contract for the construction has been let to the-FREEBORN ENGINEERING & CONSTRUCTION CO., Scarritt Bldg., Kansas City, Mo., and work will be started in a short time. A force of engineers and helpers are now on the ground making levels, staking out the several buildings and making soundings for foundations. H. B. Zimmer is in charge, at Sioux Falls.

OKLAHOMA CITY, OKLA.—The promoters of the Oklahoma City Bag & Cotton Mills are taking action to begin the construction of the necessary buildings. Plans and specifications are rapidly being completed by J. E. Sirrine, Arch.-Engr., of Greenville, S. C. The principal structure will be 450 ft. long and 70 ft. wide, to contain the yarn spinning and cloth weaving equipment; the bag factory will be 300 ft. long by 75 ft. wide. Reinforced concrete is the character of construction decided on. To begin with the company will have 10,000 spindles, 300 looms, etc. It is understood that M. L. Berry, of Oklahoma City, will be Pres. The investment in this enterprise will be $1,000,000.

SAN LUIS OBISPO, CAL.—The San Luis Compound Co., of this city, will erect a concrete factory building to be used for the manufacture of boiler equipment. The building will contain a laboratory, foundry and offices.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

	Noted in issue of
7-22 Gas engine, Pierre, S. Dak.	6-30
7-25 Boiler, etc., Saskatoon, Sask.	7- 7
7-30 Condensers, etc., New York	7-14
8- 2 Elec. light plant, Wilson, Kan.	7-21
8-10 Electric conduits, Decorah, Iowa.	7-21

Bridges.

7-22 Bridge, Barberton, Ohio	7-21
7-23 Superstructure, Solon, Me.	6-30
7-23 Bridge, Wiggins, Colo.	7- 7
7-25 Bridges, Manhattan, Kan.	7- 7
7-25 Bridges, Leesburg, Va.	5-26
7-25 Bridges, Kansas City, Mo.	7- 7
7-25 Bridge, Brockville, Ont.	7-21
7-25 Bridge, San Jose, Cal.	7-21
7-25 Bridges, Lake Village, Ark.	7-21
7-25 Culverts, etc., Hallock, Minn.	7-21
7-25 Culvert, etc., Lisbon, Ohio	7-21
7-25 Substructure, Winnipeg, Man.	7-21
7-25 Bridge bonds, Zanesville, Ohio	7-21
7-25 Arch, Washington, Pa.	7-21
7-26*Bridge, Little Falls, N. Y.	7-14
7-26 Bridge approach, Hastings, Minn.	7-14
7-27 Bridge, East Providence, R. I.	7-21
7-28 Bridge, Fowler, Ind	7-14
7-28 Bridge work, Alexandria, La.	6-16
7-30 Bridges, etc., Lincoln, Neb.	7-21
8- 1 Bridge repair, Peninsula, Ohio.	7-21
8- 1 Bridge, Bowling Green, Ohio	7-21
8- 1 Bridges, Laurinburg, N. C.	7-21
8- 1 Removing piers, Beaver, Pa.	7-21
8- 1*Viaduct, Barberton, Ohio	7- 7
8- 1 Viaduct, Dallas, Tex.	7- 7
8- 1 Concrete arch, Bluffton, Ind.	7-14
8- 1 Superstructure, Warren, Ohio	7-14
8- 2 Bridge, Brazil, Ind	7-14
8- 2 Bridge, Sylvania, Ohio	7-14
8- 2*Bridge, Oswego, N. Y.	7-14
8- 2 Bridge, Lima, Ohio	7-21
8- 8 Bridges, Okemah, Okla.	7-21
8-16*Superstructure, Wilmington, N.C.	7-21
8-22 Superstructure, Fort Dodge, Iowa	7-14
9- 1 Bridge superstructure, Quebec	6-30
9- 5 Bridge repair, Gaffney, S. C.	7- 7

Buildings.

7-22 Hospital, Erie, Pa.	7-21
7-25 Hospital, New York	7-21
7-25 Building, Baltimore, Md.	7-21
7-25 Storehouse, Rock Island, Ill.	7- 7
7-25 Schools, New York	7-14
7-25 Interior finishing, New York	7-14
7-25 Infirmary, Delphi, Ind.	7-14
7-26 Cabinet work, Peru, Ind.	6-30
7-26 Quarters, Louisville, Ky.	6-16
7-27*Post-office, Lewiston, Idaho	6-16
7-27*Dwellings, Cincinnati, Ohio	6-30
7-28 Quarters, Ft. Screven, Ga.	7-14
8- 1*Post-office, Santa Cruz, Cal.	6-23
8- 1 School, Columbus, Ohio	7-21
8- 3 School, Brazil, Ind.	7-21
8- 3*Post-office, Litchfield, Ill.	7-21
8- 3 Bank, Columbus, Ohio	6-30
8- 4 Post-office, Chelsea, Mass.	7-14
8- 8 Post-office, Amsterdam, N. Y.	7- 7
8- 9*Post-office, Woburn, Mass.	7- 7
8-10*Post-office, Decorah, Ia.	7- 7
8-11 School, Portsmouth, Ohio	7-21
8-15 School, Urbana, Ind.	7-21
8-17 Houses, Wheeling, W. Va.	7-21
8-18*Post-office, Pontiac, Mich.	7-21
8-19 Post-office, Palestine, Tex.	7-14
8-22 Post-office, Carbondale, Pa.	7-21
8-25 Buildings, etc., Hawaii.	6- 4
8-25*Post-office, Marlboro, Mass.	7-21
9-10 Plans, Albany, N. Y.	6- 9
11- 1 Plans, Toronto, Ont.	6- 9

Water-Works.

7-22*Pumping plant, Carrollton, Ill.	6-30
7-22 Valves, Los Angeles, Cal.	7-14
7-22 Settling basins, Chisholm, Minn.	7-14
7-22*Dam, Plattsburgh, N. Y.	7-14
7-22 Water-main, Euclid, Ohio	7-21
7-23 Water tower, Scotland, S. Dak.	7-21
7-23 Water system, Biwabik, Minn.	7-21
7-25*Dam, etc., Batavia, N. Y.	7-14
7-25 Water-works, Uniontown, Pa.	7-21
7-25 Boilers, etc., Galesburg, Ill.	7-14
7-25 Boilers, Saskatoon, Sask.	7-21
7-25 Water-mains, Rugby, N. Dak.	7-21
7-25 Well-houses, Chicago, Ill.	7-21
7-25 Water pipe, Amherst, Ohio	7-21
7-26 Water system, etc., St. Bonifacius, Man.	7-21
7-26 Water-main, Bement, Ill.	7-21
7-26 Boiler and pump-house, Fairport, Iowa.	7- 7
7-27 Water system, Wausau, Wis.	7-14
7-27*Water pipe, Washington, D. C.	7-21
7-28*Pumping engine, Perry, N. Y.	7-14
7-29 Reservoirs, Fort Moultrie, S. C.	7-14
7-29 Pumping engine, Minneapolis, Minn.	7-21
7-30 Pumping station, Fort Missoula, Mont.	7-14
8- 1 Laying pipe, Cheyenne, Wyo.	7-14
8- 1 Water-main, Lynchburg, Va.	7-21
8- 4*Water-works station, etc., Gadsden, Ala.	7-14
8- 4 Smokestack, Fort Sam Houston, Tex.	7-14
8- 5*Water-works, Orleans, Neb.	7-14
8- 9 Water-main, Cleveland Heights, Ohio	7-21
8-15 Water system, Bridgeport, Okla.	7-21
8-25 Water pipe, etc., Keeseville, N.Y.	7-21

Sewers.

7-22 Sewer, Malden, Mass.	7- 7
7-22 Sewer, Hartford, Conn.	7-21
7-22 Sewer, Sioux City, Iowa.	7-21
7-22 Sewers, Libertyville, Ill.	7-21
7-22 Sewers, Zanesville, Ohio	7-21
7-23 Sewers, Niles, Ohio	7-21
7-25*Sewer, Lafollette, Tenn.	7- 7
7-25 Drain, Savannah, Ga.	6-23
7-26*Sewer, Toronto, Ont.	6-30
7-26 Sewers, Attalla, Ala.	7-14
7-26 Sewers, Roanoke, Va.	7-14
7-26 Sewer line, Winnipeg, Man.	7-14
7-26 Sewer, Delphi, Ind.	7-21
7-26 Sewers, Buffalo, N. Y.	7-21
7-27 Sewer, Canton, Ohio	7-21
7-27*Sanitary sewers, Union City, Tenn.	7- 7
7-27 Sewer system, Colton, Cal.	7-21
8- 1 Sewer system, Hooperston, Ill.	7-21
8- 1 Sewers, etc., Danville, Ill.	7-21
8- 1 Sewer laterals, Galion, Ohio	7-21
8- 1*Sewer, Bronxville, N. Y.	7-21
8- 2 Sewer system, Beaumont, Tex.	7-21
8- 2 Sewer system, Winnemucca Nev.	7-14
8- 3 Sewer pipe, Leavenworth, Kan.	7-21
8- 3 Sewers, Hawarden, Iowa.	7-21
8- 3 Sewer pipe, Leavenworth, Kan.	7-21
8- 3*Disposal works, Ventnor City, N. J.	7-21
8- 4*Sewer, Woonsocket, R. I.	7-21
8- 9 Sewer, Pasadena, Cal.	7-21
8-10*Sewers, Madison, N. J.	7-21
8-11 Sewer pipe, St. Petersburg, Fla.	7-14
8-22*Sewer system, etc., Fort Crockett, Tex.	7-21

Streets and Roads.

7-22*Paving, Caldwell, Ohio	7- 7
7-22 Asphalt, Hartford, Conn.	7-21
7-22 Road impvt., Napoleon, Ohio	7-21
7-23 Road, East Cambridge, Mass.	7-21
7-23 Paving, Boston, Mass.	7- 7
7-23 Street impvt., Sparta, Wis.	7-14
7-23 Paving, Racine, Wis.	7-14
7-25 Grading, etc., Huntington, W. Va.	7-14
7-25 Street impvt., Sidell, Ill.	7-14
7-25*Paving, Amarillo, Tex.	7- 7
7-25 Roads, etc., Jefferson Barracks, Mo.	7-21
7-25 Sidewalk, Yankton, S. Dak.	7-21
7-25 Resurfacing, Peoria, Ill.	7-21
7-25 Pavement, etc., Steubenville, O.	7-21
7-25 Regulating, etc., New York	7-21
7-26 Macadamizing, Youngstown, Ohio	7-21
7-26 Regulating, etc., Long Island City, N. Y.	7-21
7-26 Sidewalks, etc., New York	7-14
7-26 Grading, etc., Bryan, Ohio	7-14
7-27 Grading, etc., Defiance, Ohio	7-14
7-27 Paving blocks, Baltimore, Md.	7-21
7-27 Road, Baltimore, Md.	7-21
7-28 Highway, Ely, Nev.	7-21
7-30 Sidewalks, etc., Fort Missoula, Mont.	7-14
7-30 Grading, Waynesboro, Pa.	7-21
7-30 Roads, etc., Fort Leavenworth, Kan.	7-14
8- 1 Gravel road, Huntington, Ind.	7-21
8- 1 Gravel road, Danville, Ind.	7-21
8- 1 Gravel road, Jeffersonville, Ind.	7-21
8- 1 Pavement, Hampton, Iowa.	7-21
8- 1 Road, Vernon, Ind.	7-21
8- 1 Paving, Decatur, Ill.	7-14
8- 1*Grading, etc., Bronxville, N. Y.	7-21
8- 2 Road, Vincennes, Ind.	7-14
8- 2 Road, Marion, Ind.	7-14
8- 2 Roads, Martinsville, Ind.	7-14
8- 2 Gravel road, Rockville, Ind.	7-21
8- 2 Macadam road, Crawfordsville, Ind.	7-21
8- 2 Gravel road, Danville, Ind.	7-21
8- 2 Macadam road, Bloomfield, Ind.	7-21
8- 2 Sidewalks, Leland, Miss.	7-21
8- 2*Sidewalks, Gulfport, Miss.	7-21
8- 3 Road impvt., Pittsburg, Pa.	7-21
8- 5 Paving, etc., Canton, Ohio	7-21
8- 5 Road const., Mount Gilead, Ohio.	7-21
8- 5 Street impvts., East Chicago, Ind.	7-14
8- 6 Roads, Frankfort, Ind.	7-14
8- 6*Paving, Antigo, Wis.	7-14
8- 6 Roads, Tipton, Ind.	7-14
8-10*Sidewalks, Pensacola, Fla.	7-21
8-10*Macadam, Dension, Tex.	7- 7
8-10*Road, Merchantville, N. J.	7- 7
8-11 Grading, etc., Fort Riley, Kan.	7-21
8-12 Macadamizing, Columbus, Ohio.	7-21

Miscellaneous.

7-22*Removing rock, gravel, etc., New York, N. Y.	6-23
7-22 Rock, New Orleans, La.	7-21
7-23 Ditch, Frankfort, Ind.	7-21
7-23 Ditch, Marshall, Minn.	7-21
7-23 Drainage, Clinton, Ill.	7-21
7-23 Drainage ditches, Woodstock, Ill.	7- 7
7-23*Drainage, Atkinson, Ill.	7- 7
7-23 Sub-grade, Nanitoulin & North Shore Ry.	7-14
7-23 Electrical conduit, Boston, Mass.	7-14
7-25*Removal of wreck, Wilmington, Del.	7-14
7-25 Trinitrotoluol, Ft. Totten, N. Y.	6- 9
7-25*Dams and canal, Porto Rico.	5-12
7-25*Reinforcing steel, Porto Rico.	7- 7
7-25 Breakwater, Tenecape, N. S.	7-21
7-25 Cable, Washington, D. C.	7-21
7-25 Cement, gravel, New York	7-21
7-26 Breakwater, Matane, Que.	7-21
7-26 Drainage canals, Osceola, Ark.	7-14
7-27 Brush, stone, etc., St. Louis, Mo.	7-14
7-27 Breakwater, Grand Tracadie, P. E. I.	7-21
7-28 Ditch, Chillicothe, Mo.	7-21
7-28 Road oil, New York	7-21
7-28 Vault, Washington, D. C.	7-21
7-28*Towboat, New Orleans, La.	7-14
7-30 Ditch, Frankfort, Ind.	7- 7
8- 1 Ditch, Sioux City, Iowa.	7-21
8- 1 Levee, Memphis, Tenn.	7-21
8- 1 Levee, New Orleans, La.	7-21
8- 2*Levee, Kansas City, Kan.	7-14
8- 4 Smokestack, Ft. Sam Houston, Tex.	7-21
8- 5 Ditch, Greenfield, Ind.	7-14
8- 8*Dredging, etc., Chicago, Ill.	7-14
8- 8 Supplies, Panama.	7-14
8- 8*Canal lock supplies, Panama.	7-14
8- 8*Stone, Oswego, N. Y.	7-14
8- 8*Ry. grading and bridges, El Paso, Tex.	7-14
8- 9 Pier, Colchester, Ont.	6-30
8-10*Dredge, Philadelphia, Pa.	7-21
8-11*Hire of dredging plant, Detroit, Mich.	7-14
8-16*Dredging, Buffalo, N. Y.	7-14
8-16*Dredging, Erie, Pa.	7-21
9-16*Lock machinery, Panama.	7-21

Examinations.

7-23 Supervisor, Albany, N. Y.	7-14
7-23 Superintendent, Albany, N. Y.	7-14
7-23 Statistician, Albany, N. Y.	7-14
7-23 Searcher and examiner, Albany, N. Y.	7-14
7-23 Satisfaction clerk, Albany, N. Y.	7-14
7-23 Junior accountant, Albany, N. Y.	7-14
7-23 Inspector of weights, etc., Albany, N. Y.	7-14
7-23 Expert, Dept. Labor, Albany, N. Y.	7-14
7-23 Editor and statistician, Albany, N. Y.	7-14
7-23 County sealer, Albany, N. Y.	7-14
7-23 Chief of examiners division, Albany, N. Y.	7-14
7-23 Accountant, Albany, N. Y.	7-14
7-27 Statistician, Madison, Wis.	7-14
7-27 Testing engineer, Madison, Wis.	7-14
7-27 Forest engineer, Wash. D. C.	7-14
7-27 Asst. in chemistry, Wash. D. C.	7-14
7-27 Draftsman, Washington, D. C.	7-14
7-27 Topographic draftsman, Washington, D. C.	7-14
7-27 Asst. Engineer, New York, N. Y.	7-14
7-27 Asst. Chemist, Wash., D. C.	6-23
7-27 Laboratory Aid, Wash., D. C.	6-23
8-10 Steam engr., Cleveland, Ohio	7-14
8-10 Asst. steam engr., Cleveland, Ohio	7-14
8-24 Asst. Engr., New York, N. Y.	7-14

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

7-22*Pumping plant, Carrollton, Ill. (S.) 6-30
7-23 Paving, Boston, Mass. (S.) 7- 7
7-23 Electrical conduit, Boston Mass. (S.) 7-14
7-25*Dams, canal, Porto Rico. (P. & S.) 5-12
C. (S.) 6-30
7-28*Pumping engine, Perry, N. Y. (S.) 7-14
7-30 Condensers, etc., New York. (S.) 7-14
8- 1*Viaduct, Barberton, O. (P. & S.) 7- 7
8- 8*Railway, New Mexico. (P. & S.) 6-30

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

WHARF.—Miscou Harbor, N. B.—The contract for the wharf extension at Miscou has been awarded to E. R. REID, of St. John, N. B.

BREAKWATER.—Matane, Que.—Bids will be received until July 26 by the Department of Public Works, Ottawa, Ont., for constructing a breakwater at Matane.

CANAL.—Welland, Ont.—J. W. RUSSELL, of Toronto, Ont., has been awarded the contract for widening the Welland Canal at Welland, Ont., for the sum of $12,000.

BREAKWATER.—Tenecape, N. S.—Bids will be received until July 25 by the Department of Public Works, Ottawa, Ont., for constructing an extension to breakwater at Tenecape.

*RAILWAY GRADING AND BRIDGES.—El Paso, Tex.—Plans and specifications are on file at the office of Engineering News, New York, for constructing road bed, bridges, etc., for a branch railroad between Engle and Cutter, N. Mex., for the U. S. Reclamation Service. Bids will be received until Aug. 8. Noted on June 30.

BREAKWATER.—Grand Tracadie, P. E. I.—Bids will be received until July 27 by the Department of Public Works, Ottawa, Ont., for constructing a breakwater at Tracadie Harbor.

LEVEE.—Memphis, Tenn.—Bids are asked until noon, Aug. 1, by Maj. M. L. Walker, Corps Engrs., U. S. A., for about 226,000 cu. yds. of levee work in the Upper Yazoo Levee District.

PIER.—Colchester, Ont.—Bids will be received by R. C. Desroches, Asst. Secy. Public Works, Ottawa, Ont., until Aug. 9, for the construction of an extension to the pier at Colchester, Ont.

DITCH.—Marshall, Minn.—Bids will be received until July 23 by Ernest S. Shepard, County Audr., for construc-ting Judicial Ditch No. 7, requiring about 68,962 yds. of excavation. Cost, $6,296.

ROAD OIL.—New York, N. Y.—Bids are asked by the Park Board until 3 p. m., July 28, for furnishing and delivering 1,000 bbls. of emulsifying road sprinkling oil for the Boro. of Manhattan.

*DREDGING.—Erie, Pa.—Bids will be received by Col. W. L. Fisk, Corps Engrs., U. S. A., Federal Bldg., Buffalo, until 11 a. m., Aug. 16, for dredging entrance to channel and basin at Erie Harbor.

REMOVING EARTH.—Syracuse, N. Y.—Bids are asked by James Stewart, 30 Church St., New York, for approximately 300,000 cu. yds. of dirt that must be moved with scrapers in the vicinity of Syracuse.

FLOOD PROTECTION.—Des Moines, Iowa.—Bids will be received about Sept. 1 for river improvements for flood protection, to cost about $150,000. John W. Budd is City Engr.; James R. Hanna, Mayor.

ROCK.—New Orleans, La.—Bids will be received until July 22 by Maj. H. Burgess, Corps Engrs., U. S. A., 2338 St. Charles Ave., New Orleans, for furnishing about 10,000 tons of rock for Reid-Bedford, La.

*DREDGING.—Buffalo, N. Y.—Bids will be received by Col. W. L. Fisk, Corps Engrs., U. S. A., Federal Bldg., until 11 a. m., Aug. 16, for excavation in Niagara River section of Black Rock harbor and channel, N. Y.

PIER.—Philadelphia, Pa.—Jos. F. Haaskarl, Acting Dir. Dept. of Wharves and Docks, has completed plans for a double-deck pier at Allegheny Ave. on the Delaware River, to be 500 ft. long, 100 ft. wide and to cost about $390,000.

DITCHES.—Frankfort, Ind.—Bids will be received until July 23 by M. V. Unger, Drainage Comr., for constructing the Martha M. Templeton Ditch. Bids will also be received same place until July 30 for the Nathaniel Cripe Ditch.

DREDGING.—Bayonne, N. J.—The contract for dredging about 7,000 cu. yds. under 25ft. St. dock, Newark Bay, has been awarded to

JOHN & JOSEPH McSPIRIT, 118 Wayne St., Jersey City, at 28 cts. per cu. yd. S. J. Harwi is City Surv.

CEMENT, GRAVEL.—New York, N. Y.—Bids are asked by George McAneny, Pres. Boro. of Manhattan, until 2 p. m., July 25, for furnishing and delivering 30,000 gallons of No. 6 paving cement; for furnishing and delivering 1,500 cu. yds. of washed gravel.

LEVEE.—Natchez, Miss.—The U. S. Government has awarded contracts for construction of a levee near Buck Ridge, La., in three sections, as follows: To I. R. BOBBIT, for 125,000 cu. yds.; R. T. CLARK, for 130,000 cu. yds., and DONOVAN & DALY, 61,000 cu. yds.

CABLE.—Washington, D. C.—Bids are asked by Capt. A. S. Cowan, Signal Corps, U. S. A., Washington, D. C., until July 25, for furnishing 32,000 ft. of paper insulated submarine cable, type 321, and 8,000 ft., type 327, both under Signal Corps Specification No. 427.

*LEVEE.—Kansas City, Kan.—Bids are asked by the Kaw Valley Drainage Board, W. H. Daniels, Pres., until 2 p. m., Aug. 2, for about 62,400 cu. yds. levee work, 50,000 sq. yds. revetment paving and other work along left bank Kansas River, from Mattoon Creek to Fifth St. Bridge.

DRY DOCK.—Prince Rupert, B. C.—The Grand Trunk Pacific Ry. Co., B. B. Kelleher, Ch. Engr., Winnipeg, Man., has filed plans and made application for a dry dock subsidy. The company proposes to build a large floating dock at Prince Rupert to cost $1,500,000, and to have a lifting capacity of 20,000 tons.

DAM.—Baltimore, Md.—Wehr, Walden & Dukehart, Engrs., Continental Bldg., Baltimore, have completed plans for a concrete gravity dam to be constructed on the Patapsco River. The contract has been let to the AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, Mass. Cost, between $30,000 and $35,000.

GOLD DREDGE.—Folsom, Cal.—Natomas Consolidated, organized by W. P. Hammon, Alaska Commercial Bldg., San Francisco, and associates, a few months ago, with $25,000,000 capital, is preparing to build at Rebel Hill, near Folsom, a gold dredge. The dredge will be constructed by the YUBA CONSTRUCTION CO., of Marysville, Cal.

DITCH.—Chillicothe, Mo.—Bids are wanted until July 28 for constructing a dredge ditch with eight highway steel bridges, 40-ft. spans, 14 farm crossings and 16 water gates in Drainage Dist. No. 13. Total length of ditch, 51,800 lin. ft.; cu. yds., 208,766. Thomas Hurst is County Engr. and Surv.; A. M. Shelton County Clerk.

DRAINS.—Mason, Mich.—Bids were received on June 24 for constructing open drain seven miles southeast of Mason. Contracts have been let to HORACE ASELTINE and J. C. HUNT, both of Mason. The work consists of digging black loam and muck and will be done for the County Drain Commissioners, W. R. Carven, Deputy Comr. W. E. Zimmer, of Mason, is Engr.

DREDGING.—Fall River, Mass.—The contract for dredging the sewer outlet at the wharf of the Rowenville Coal Co. to such a depth as to allow vessels to come into the wharf with safety, has been awarded to the J. S. PACKARD DREDGING CO., of Providence, R. I. The cost will be 30 cts. per cu. yd. for the first 1,000 yds., and 25 cts. per cu. yd. for every yard over and above 1,000 cu. yds.

DITCH.—Sioux City, Iowa.—Bids will be received until Aug. 1 by E. E. Hosmer, County Audr., for the construction of Garretson ditch and laterals in Woodbury County. The main ditch is ten miles long, with an approximate excavation of 255,000 cu. yds. There are 16 laterals of an aggregate length of 23.7 miles and a total excavation of approximately 262,000 cu. yds. G. Y. Skeels is Engr., Sioux City.

*BARGE CANAL.—Albany, N. Y.—Only one bid was received by F. C. Stevens, Supt. Public Works, on July 19, for Barge Canal Contract No. 62, providing for the improvement of the Erie Canal from the west line of Monroe County to the east end of Contract No. 9 at Eagle Harbor, in Orleans County, that of I. M. Ludington & Sons, Inc., Rochester, N. Y., at $2,347,836. The engineer's estimate of the cost of the work is $2,151,470. Frank M. Williams is State Engr.

DRAINAGE.—Clinton, Ill.—Bids will be received until July 23 (readvertisement) by the Drainage Commissioners of Creek Union District No. 1, towns of Creek and Friends Creek, Counties of De Witt and Macon, at the office of the County Clerk at Clinton, for constructing the main drainage channel in said district, to be about four miles in length and requiring the excavation of about 53,378 cu. yds. of dirt to be moved 8 ft. from lines of the ditch. W. J. Day is Engr., Bement, Ill.

DREDGING, ETC.—Ithaca, N. Y.—Plans have been prepared for dredging to cost $23,000, and to be done under the supervision of H. A. St. John, Supt. of Pub. Wks., Ithaca. Donald F. McLeod is City Engr. The work consists of a 25-ft. drainage channel and dyking, $5,000; 100-ft. channel from Clinton St. to the Inlet, $8,000; piling, $1,000; a 100-ft. steel bridge at Clinton St., $3,000; necessary work at the artesian wells, $1,000; cleaning out the old Inlet channel, $3,000; land damages, $1,500.

PIPE LINE.—Lufkin, Tex.—The Gulf Pipe Line Co. has under construction a 6-in. oil line from the Caddo, Louisiana District to Lufkin, Tex., a distance of 100 miles. At Lufkin this line will connect with the Gulf Pipe Line Co.'s main 8-in. oil line with a daily capacity of 23,000 bbls., extending from the Oklahoma fields to the Gulf Refining Co.'s refineries at Port Arthur, Tex. The line will be equipped with two stations and under normal conditions will have a capacity of about 8,000 bbls. per day. The order for the pipe has been placed with the NATIONAL TUBE CO., Brick Bldg., Pittsburg, Pa., and it is expected that the line will be in operation not later than Sept. 15.

DITCH.—Hallock, Minn.—Bids were received by C. J. Hemmingson and A. G. Lundgren, County Auditors of Kittson and Marshall Counties, at Hallock, Minn., on July 9, for constructing Judicial Ditch No. 10, between the two counties: about 29 miles long, average depth about 5 ft., bottom width 3 to 8 ft., slope 1½ to 1, 381,508 cu. yds., clear open prairie, soil black loam, nearest railway station, Donaldson, two miles north of ditch, crosses Great Northern Ry. Estimated cost, $62,957. O. L. Hamery, Crookston, Minn., is Engr. The bids follow (a) for main ditch per cu. yd., (b) for branch, (c) for road, per mile: Mulgrew-Boyce Co., Dubuque, Iowa, (a) 10 cts., (b) 13 cts., (c) $60; Standard Drainage Co., Windom, Minn., (a) 12¾ cts., (b) 13 cts., (c) $150; Farrestal & Flynn, Memphis, Minn., (a) 12¾ cts., (b) 12¾ cts., (c) $150; N. W. Drainage Co., Grand Rapids, Mich., (a) 12 1-5 cts., (b) 12 1-5 cts., (c) $100; VALLEY DREDGING CO., Stephen, Minn., (a) 10 cts., (b) 10 cts., (c) $100 (awarded contract).

*BREAKWATER.—Boston, Mass. — Bids were received as follows on July 15 by the Board of Harbor and Land Commissioners, State House, for (A) building a stone breakwater at the entrance of Cohasset Harbor and (B) dredging an anchorage basin and channel in the harbor. The contracts were let separately. Frank W. Hodgdon is Ch. Engr.:

(A) The Breakwater Co., 1222 Arcade Bldg., Philadelphia, Pa., $2.87 per ton (2,000 lbs.) furnishing stone and building breakwater; Lawler Bros., Charlestown, Mass., $2.55 per ton; William H. Connor, Middleboro, Mass., $2.97 per ton; John Cashman & Sons Co., Quincy, Mass., $2.43 per ton; THOMAS FITZGIBBON, Beverly, Mass., $2.13 per ton (awarded contract). Estimated amount of stone, 4,000 tons.

(B) Bay State Dredging Co., Boston, Mass., 17 cts. per cu. yd., measured in scows; Charles M. Cole, Fall River, Mass., 19.9 cts. per cu. yd.; Eastern Dredging Co., Boston, Mass., 15.6 cts. per cu. yd.; J. P. O'RIORDEN, Boston, Mass., 14.625 cts. per cu. yd. Estimated amount of material, 101,000 cu. yds. scow measurement.

U. S. POSSESSIONS.

*(*Denotes that this work is advertised in Engineering News.)*

*LOCK MACHINERY.—Panama.—Bids are asked by Capt. F. C. Boggs, Corps of Engrs., Washington, D. C., Gen. Purchasing Officer, Isthmian Canal Comn., until 10.30 a. m., Sept. 16, for furnishing and erecting machinery to operate the Stoney Gate valves for controlling the main culverts, and machinery to operate the cylindrical valves for controlling the lateral culverts of the Upper Lock at Gatun and the Pedro Miguel Lock.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 36.

ELECTRIC WORK.

New York, N. Y.

Sealed proposals, indorsed on the envelope "Electric Work, State Arsenal," and addressed to the undersigned, will be received at the office of the Armory Commission in the Capitol, Albany, N. Y., up to twelve o'clock noon on Wednesday, August 3rd, 1910, when bids will be opened and read publicly for electric light wiring and fixtures, State Arsenal, 7th Ave. and 35th St., New York City.

Specifications and plans may be consulted and blank forms of proposal obtained at the following places: Office of the Armory Commission, Capitol, Albany, N. Y., and the State Arsenal, 7th Ave. and 35th Street, New York City.

All bids should be based on a thorough examination of the premises.

Informal bids will not be considered.

The right is reserved to reject any or all bids.

STATE ARMORY COMMISSION,
F. A. McNEELY, Secretary.
Capitol, Albany, N. Y.

BRIDGE.

Paterson, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of Passaic County on Wednesday, July 27th, 1910, at 2 P. M., at the Court House, Paterson, N. J., for building a reinforced concrete arch bridge over the Wanaque River, at Pompton Lakes, on the Paterson and Hamburgh Turnpike, near McDavitt's.

Plans and specifications may be seen at the office of the County Engineer, Court House, Paterson, N. J.

A certified check in the sum of $800 must accompany each bid.

The right to reject any or all bids is reserved.

FRED. G. SLOAN, Chairman,
Passaic County Board.
GEORGE W. BOTBYL, Clerk.

SAYBROOK BRIDGE.

NOTICE TO BRIDGE BUILDERS.

Saybrook, Conn.

Contractors experienced in bridge superstructure work are invited to tender sealed bids for the construction of the superstructure for a highway bridge to be built across the Connecticut River, between the towns of Old Saybrook and Old Lyme, for the State of Connecticut. Bids will be received by the Saybrook and Lyme Connecticut River Bridge Commission at their office at Saybrook, Conn., until noon of Aug. 10, 1910.

The site of the proposed bridge is about 3 miles from Long Island Sound. The river is navigable for vessels drawing about 12 feet.

A certified check for five thousand dollars made payable to order of James H. Day, Treasurer of the Commission, must accompany each bid, said check to be returned to the bidder unless he fails to execute the contract within 10 days should it be awarded to him.

A bond satisfactory to the Commission in the sum of 25 per cent. of the contract price will be required.

All bids must be made on and conform to a form of proposal which, with the contract, specifications and bond can be obtained and plans seen at the office of the Commission, at Saybrook, Conn., on and after July 20, 1910.

The Commission reserve the right to reject any or all bids, and to accept any bid which in their judgment is for the best interest of the State of Connecticut.

The above work covers:—

8 Deck rivetted spans of about 159 ft.
2 Deck rivetted spans of about 122½ ft.
1 Deck Scherzer Rolling Lift Draw in two wings, total length of 282 ft.

THE SAYBROOK AND LYME CONNECTICUT RIVER BRIDGE COMMISSION.

D. A. BLAKESLEE, Prest.
New Haven, Conn.
A. N. SHEPARD, Vice-Prest.,
Portland, Conn.
JAMES H. DAY, Sec. & Treas.,
Saybrook, Conn.
MOLLER & HODGE,
Cons. Engineers.
EDWARD W. BUSH,
Chief Engineer.
July 18, 1910.

SEWER CONSTRUCTION.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of Section "A," Western Intercepter, Contract No. 72, will be received at the office of the Commissioners of Sewerage, 605 Equitable Building, Louisville, Ky., until 12 o'clock noon, August 5, 1910.

The work consists mainly of the construction of about 3,239 ft. of reinforced concrete sewer, diameter 5 feet, including about 3,239 feet of earth excavation, average cut about 19.1 feet, about 1,450 cu. yds. of concrete, and about 67,000 lbs. of steel.

Plans and specifications may be seen at the office of the Commissioners, and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposals for Section "A," Western Intercepter," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

PIPE.

Sioux City, Ia.

Sealed proposals for the construction of 800 ft. of 4' x 5' x 8" tunnel and placing 800 ft. of 16" c.-i. suction pipe, will be received at the office of the City Clerk, Sioux City, Iowa, 9 A. M., July 30, 1910. Bids are asked for both brick and concrete.

The City reserves the right to reject any and all bids. Plans and specifications furnished on application.

K. C. GAYNOR,
City Engineer.

PIPE.

COMMONWEALTH OF [illegible]SACHUSETTS.—Metropolitan Water [illegible] Sewerage Board.—Laying Water P[illegible]—Sealed proposals will be received at [illegible] office of the Metropolitan Water [illegible]ewerage Board, 1 Ashburton Place, Bo[illegible] Mass., until 2:30 o'clock P. M., of M[illegible]y, August 1, 1910, for laying 3,080 [illegible] of 36-inch and 730 feet of 30-inch [illegible]ast-iron water pipe in Chelsea, Mass. [illegible]ans for the work may be seen and [illegible]mphlets containing further information [illegible]or bidders, forms of proposal, contra[illegible]nd specifications may be obtained at [illegible] office of the Chief Engineer, 1 Ashbu[illegible] Place. The printed forms must be use[illegible] in making proposals. The Board re[illegible]ves the right to reject any or all bids [illegible] to accept the proposal deemed bes[illegible]r the Commonwealth. HENRY H. S[illegible]AGUE, Chairman; HENRY P. W[illegible]COTT, JAMES A. BAILEY, Jr., Met[illegible]olitan Water and Sewerage Board. D[illegible]XTER BRACKETT, Chief Engineer of [illegible]Water-Works. WILLIAM N. DAVENPO[illegible] Secretary.

Boston, July 19, 1910.

GRAVEL ROAD.

Salem, N. J., July 20th, [illegible]10.

Sealed proposals will be received [illegible] the Road Committee of the Board of [illegible]Chosen Freeholders of the county of Sal[illegible]m, on Wednesday, August 10, 1910, at 10.30 o'clock A. M., at the Court House, Salem, N. J., for grading and placing gravel surface on the Elmer Borough Road (1.78 miles) in the Borough of Elmer, Salem County, N. J. Specifications may be obtained and plans and profiles examined at the office of Howard B. Keasbey, Mecum Building, Salem, N. J., and also at the office of the State Commissioner of Public Roads, State House, Trenton, N. J. A certified check in the sum of $1,000, made payable to the order of the Director of the Board of Chosen Freeholders of Salem County, N. J., must accompany each bid, as a guarantee that the bidder will enter into a contract should the work be awarded to him.

The right to reject any and all bids is reserved.

HARRY P. GRAY,
Director.

U. S. ENGINEER OFFICE, 537 Congress Street, Portland, Me., July 19, 1910.—Sealed proposals for dredging in Stockton Harbor, Me., will be received at this office until 12 M., Aug. 22, 1910, and then publicly opened. Information on application. GEO. A. ZINN, Lieut.-Col., Engrs.

Situations Wanted

TRANSITMAN and Superintendent's assistant, technical, five years roads, tunnels, foundations, walls, etc., desires position. Address "W. B. 3," Engineering News, New York. 3-1t

FOR SALE

Second Hand Rollers

Two Avelings, One Iroquois, Two Monarch, One Oastler, One Vulcan Steam Shovel on traction wheels; all to be sold at once. Apply STRAIN & SANFORD CO., 3-1t 18 West 34th Street, N. Y.

Scarifier For Sale

Having finished my work have no use for "Torpedo" Scarifier; will sell reasonable; good as new. Address "X. B. 3," Engineering News, New York. 3-1t

Steam Roller For Sale

One Aveling & Porter late type roller, just out of shop, good wheels and perfect condition; will sell cheap. Address "Z. B. 3," Engineering News, New York. 3-1t

"WANT"

Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cents a word for "Situations Open" and "Miscellaneous Wants." Read them weekly—they will help you.